

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK **DRILL** ☒ **DEEPEN** ☐

1b. TYPE OF WELL

OIL ☐ **GAS** ☐ **SINGLE** ☐ **MULTIPLE** ☐
WELL ☒ **WELL** ☐ **OTHER** ☐ **ZONE** ☒ **ZONE** ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

410 - 17th Street, Suite 700, Denver, CO 80202

Phone: (303) 893-0102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At Surface **NE/NE 733' FNL & 726' FEL**

At proposed Prod. Zone

*4438488 N
586518 E*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

14.2 miles southeast of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY
OR LEASE LINE, FT. (Also to

Approx. 733' f/lse line

16. NO. OF ACRES IN LEASE

1760

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL,
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

Approx. 1320'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5083.2' GR

22. APPROX. DATE WORK WILL START*

2nd QTR 01

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

Draft Conditions of Approval are attached.

**Federal Approval of this
Action is Necessary**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED *[Signature]* TITLE **Permitting Agent** DATE **2/28/01**

(This space for Federal or State office use)

PERMIT NO. **43-01332228** APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *[Signature]* TITLE

03-15-01

**BRADLEY G. HILL
RECLAMATION SPECIALIST III**

DATE

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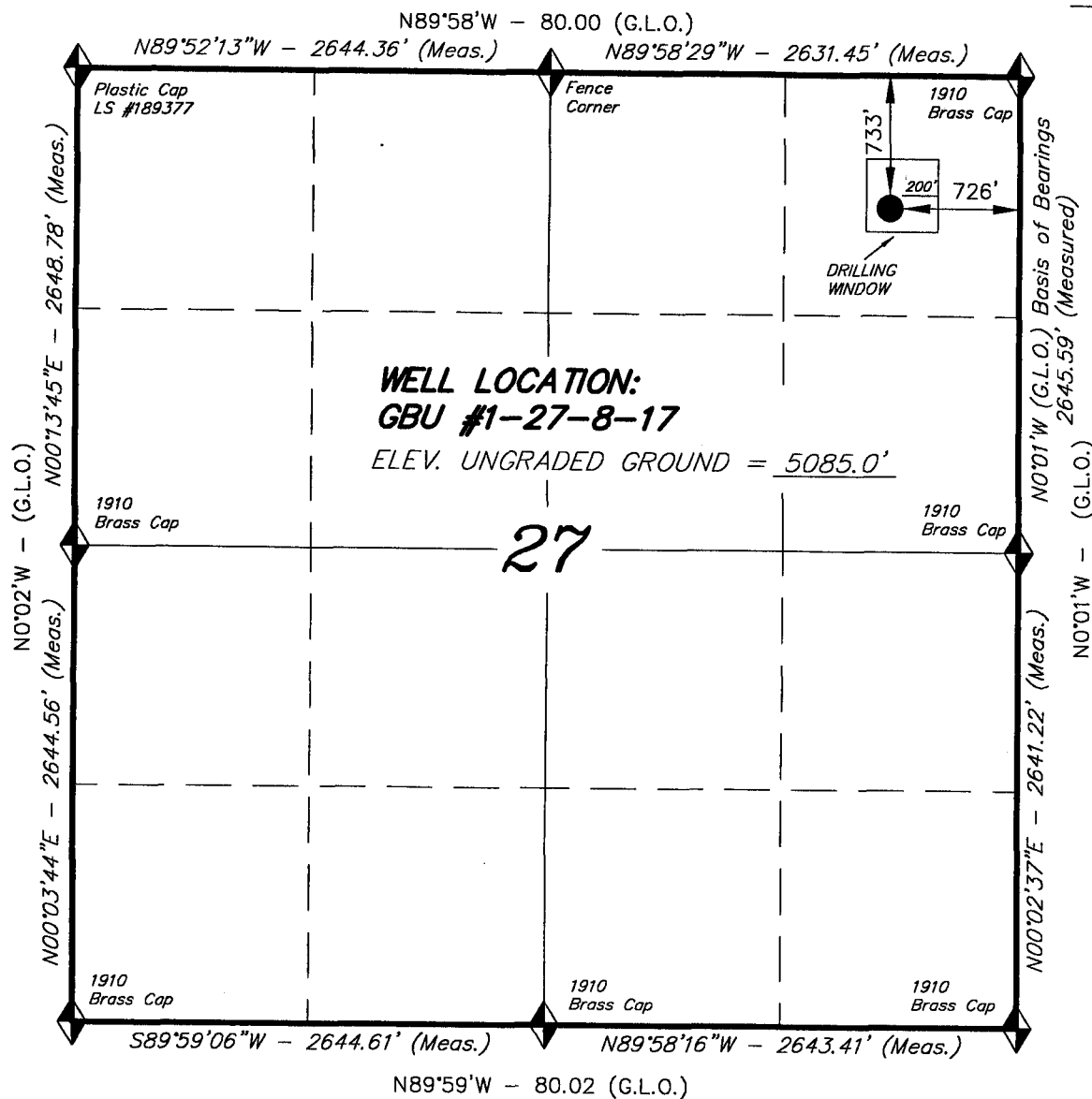
***See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**DIVISION OF
OIL, GAS AND MINING**

T8S, R17E, S.L.B.&M.

INLAND PRODUCTION COMPANY



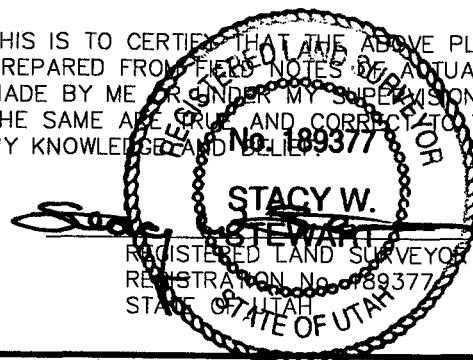
WELL LOCATION, GREATER BOUNDARY UNIT #1-27-8-17, LOCATED AS SHOWN IN THE NE 1/4 NE 1/4 OF SECTION 27, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

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**DIVISION OF
OIL, GAS AND MINING**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
 (435) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: C.D.S. R.J.
DATE: 1-4-01	WEATHER: COLD
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

March 14, 2001

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2001 Plan of Development Greater Boundary
Unit Duchesne County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2000 within the Greater Boundary Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-32228	GBU 1-27-8-17	Sec. 27, T8S, R17E 0733 FNL 0726 FEL
43-013-32229	GBU 2-27-8-17	Sec. 27, T8S, R17E 0660 FNL 1980 FEL
43-013-32230	GBU 4-27-8-17	Sec. 17, T8S, R17E 0660 FNL 1285 FWL
43-013-32231	GBU 6-27-8-17	Sec. 27, T8S, R17E 1804 FNL 1996 FWL
43-013-32232	GBU 7-27-8-17	Sec. 27, T8S, R17E 2085 FNL 2203 FEL
43-013-32233	GBU 8-27-8-17	Sec. 27, T8S, R17E 1889 FNL 0624 FEL
43-013-32234	GBU 9-27-8-17	Sec. 27, T8S, R17E 2189 FSL 0909 FEL
43-013-32235	GBU 10-27-8-17	Sec. 27, T8S, R17E 2269 FSL 2171 FEL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Boundary
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

Mcoulthard:mc:3-14-1



March 5, 2001

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Lisha Cordova
P.O. Box 145601
Salt Lake City, UT 84114-5801

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**DIVISION OF
OIL, GAS AND MINING**

RE: Applications for Permits to Drill

Dear Lisha:

Please find attached Applications for Permits to Drill (APDs) the following wells:

Greater Boundary Unit #1-27-8-17
Greater Boundary Unit #2-27-8-17
Greater Boundary Unit #4-27-8-17
Greater Boundary Unit #6-27-8-17
Greater Boundary Unit #7-27-8-17
Greater Boundary Unit #8-27-8-17
Greater Boundary Unit #9-27-8-17
Greater Boundary Unit #10-27-8-17

Note that the #4-27-8-17, #7-27-8-17, #9-27-8-17, and #10-27-8-17 require exceptional spacing due to topographic constraints (See the site-specific topographic maps in each APD for details). None of the proposed well locations for these exception locations encroaches less than 660' within the Unit or Lease boundary.

Please send approved APDs to Brad Mecham at Inland's field office in Pleasant Valley. Contact me at (970) 481-1202 if you have any questions or require additional information. Thank you for your assistance with these APDs.

Respectfully,



Jon D. Holst
Permitting Agent

Inland Production Company

Well No.: 1-27-8-17

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 1-27-8-17

API Number:

Lease Number: UTU-76241

Location: NENE Section 27, T8S R17E

GENERAL

Access well location from the west, off of the proposed 2-27-8-17 well access road.

CULTURAL RESOURCES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

PALEONTOLOGICAL RESOURCES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

SOILS, WATERSHEDS, AND FLOODPLAINS

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

WILDLIFE AND FISHERIES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.*

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OTHER

Installation of the surface gas pipeline and any subsequent buried gas or water pipelines will follow the conditions of approval outlined above.

Except as specified in the APD, the installation of the surface gas line and any subsequent buried pipelines will follow the edge of the existing roadways without interfering with the normal travel and maintenance of the roadway.

The installation of any buried pipelines will disturb as little surface as possible and will not exceed 60 feet in width. Reclamation of the water line area will be completed within 10 days after installation. The surface will be recontoured to natural or near natural contours. Reseeding will be with the same seed mixture specified for reclamation of the well site. The interface of the buried line disturbance area and the edge of any adjacent access roads will be constructed with a borrow ditch and road berm to minimize vehicular travel along the water line route.

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INLAND PRODUCTION COMPANY
GREATER BOUNDARY #1-27-8-17
NE/NE SECTION 27, T8S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 1640'
Green River	1640 '
Wasatch	6500'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1640' – 6500' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "F".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

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INLAND PRODUCTION COMPANY
GREATER BOUNDARY #1-27-8-17
NE/NE SECTION 27, T8S, R17E
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **EXISTING ROADS**

See attached Topographic Map "A"

To reach Inland Production Company well location site Greater Boundary #1-27-8-17 located in the NE ¼ of the NE ¼, Section 27, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and UT State Hwy 53; proceed southerly along Hwy 53 - 9.1 miles ± to the beginning of the proposed access road to the east; proceed east and then south 3.5 mile ± along the proposed access road to the proposed well location.

2. **PLANNED ACCESS ROAD**

See Topographic Map "B" for the location of the proposed access road.

3. **LOCATION OF EXISTING WELLS**

Refer to Exhibit "D".

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. **LOCATION AND TYPE OF WATER SUPPLY**

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. **SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

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9. **WELL SITE LAYOUT**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological and Paleontological Resource Surveys for this area are attached.

Inland Production Company requests a 60' ROW for the Greater Boundary #1-27-8-17 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."**

Inland Production Company also requests a 60' ROW be granted for the Greater Boundary #1-27-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."**

13. **LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Jon Holst
Address: 2507 Flintridge Place
Fort Collins, CO 80521
Telephone: (970) 481-1202

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #1-27-8-17 NE/NE Section 27, Township 8S, Range 17E: Lease UTU-76241 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2/28/01
Date

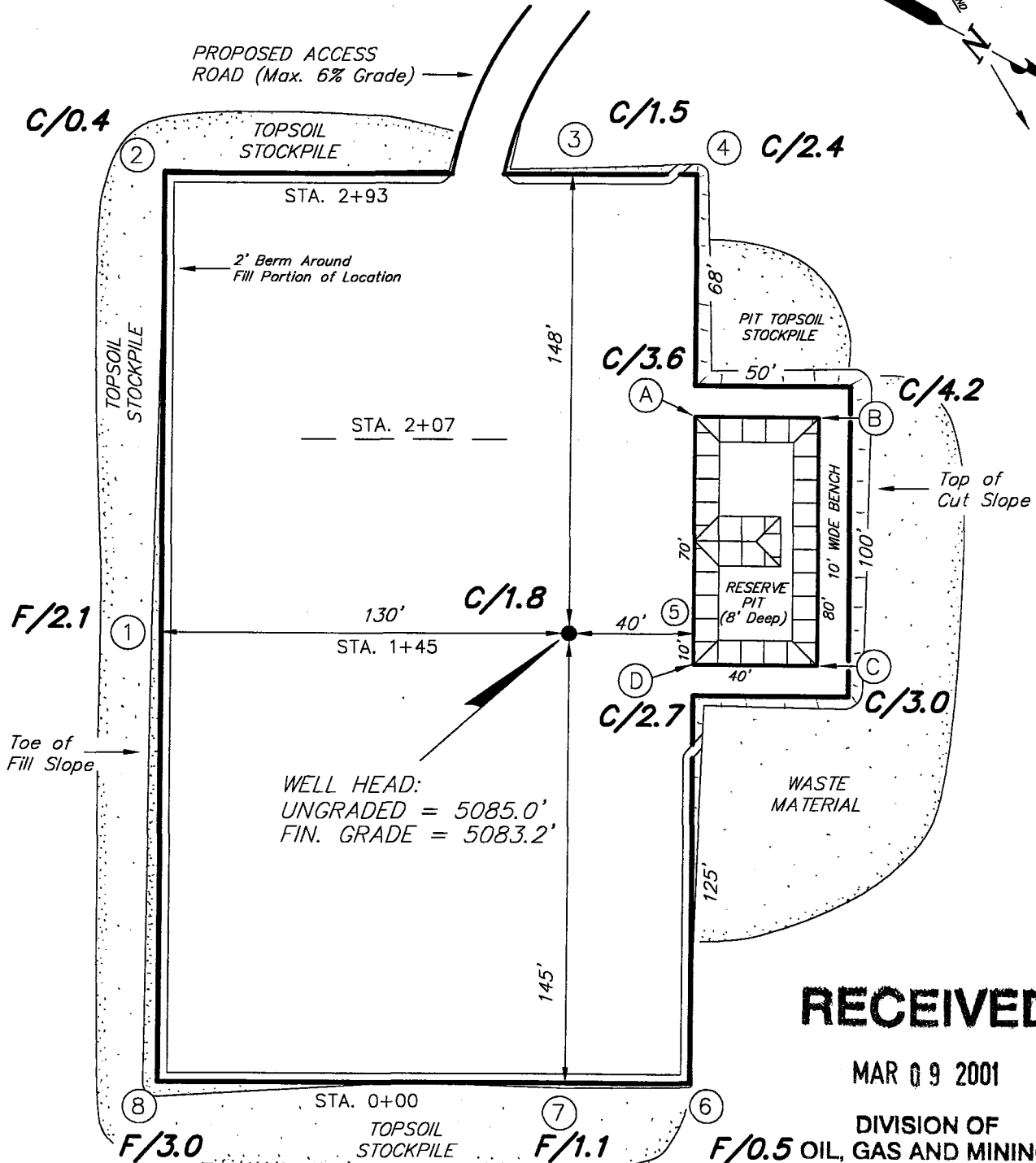
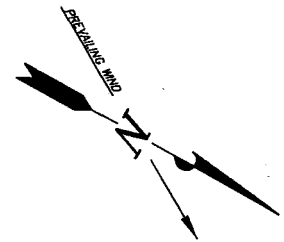
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Jon Holst
Permitting Agent

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INLAND PRODUCTION COMPANY

GBU #1-27-8-17
SEC. 27, T8S, R17E, S.L.B.&M.



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REFERENCE POINTS

180' NORTHEAST = 5108.8'
230' NORTHEAST = 5105.9'
198' SOUTHEAST = 5119.3'
248' SOUTHEAST = 5119.2'

SURVEYED BY: R.J.
DRAWN BY: J.R.S.

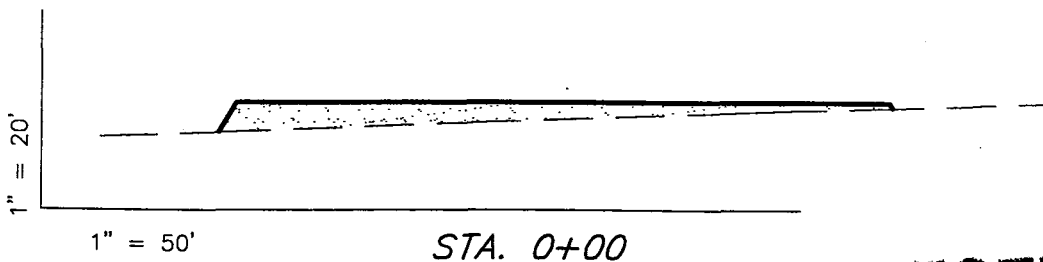
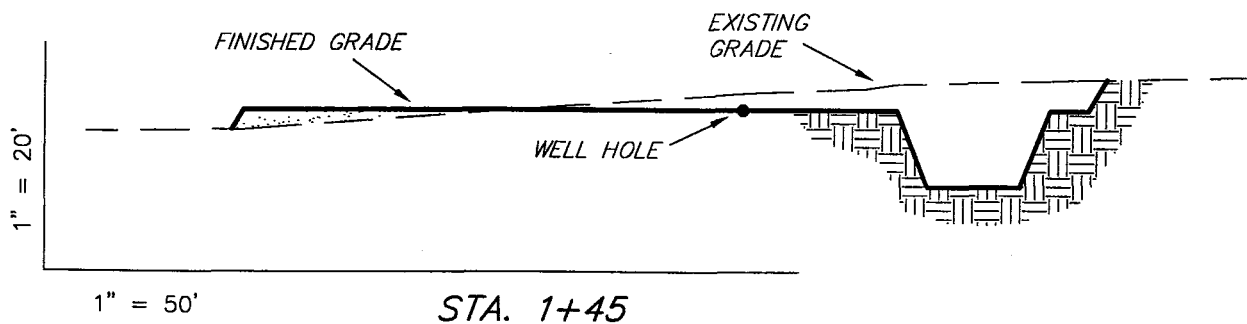
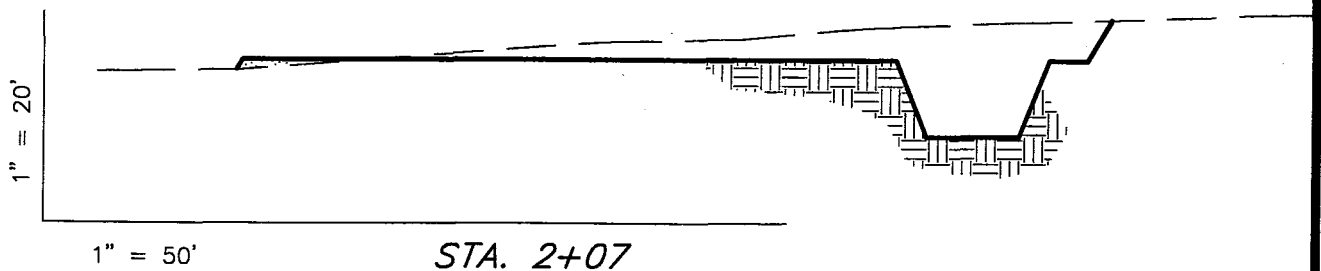
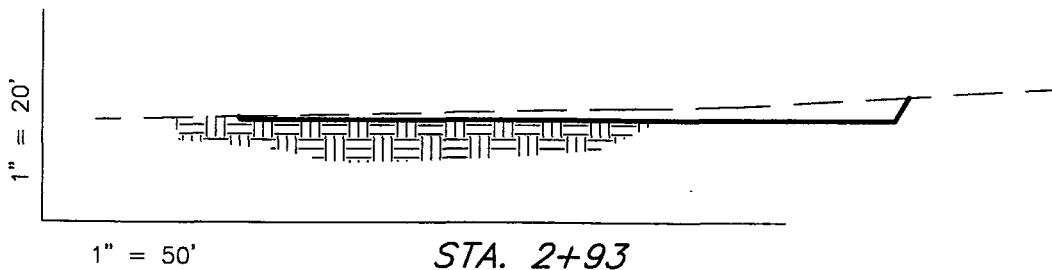
SCALE: 1" = 50'
DATE: 1-4-01

Tri State
Land Surveying, Inc.
(435) 781-2501
38 WEST 100 NORTH VERNAL, UTAH 84078

INLAND PRODUCTION COMPANY

CROSS SECTIONS

GBU #1-27-8-17



APPROXIMATE YARDAGES

CUT = 1,560 Cu. Yds.

FILL = 1,560 Cu. Yds.

PIT = 640 Cu. Yds.

6" TOPSOIL = 1,020 Cu. Yds.

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SURVEYED BY: R.J.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 1-4-01

Tri State
Land Surveying, Inc.

(435) 781-2501

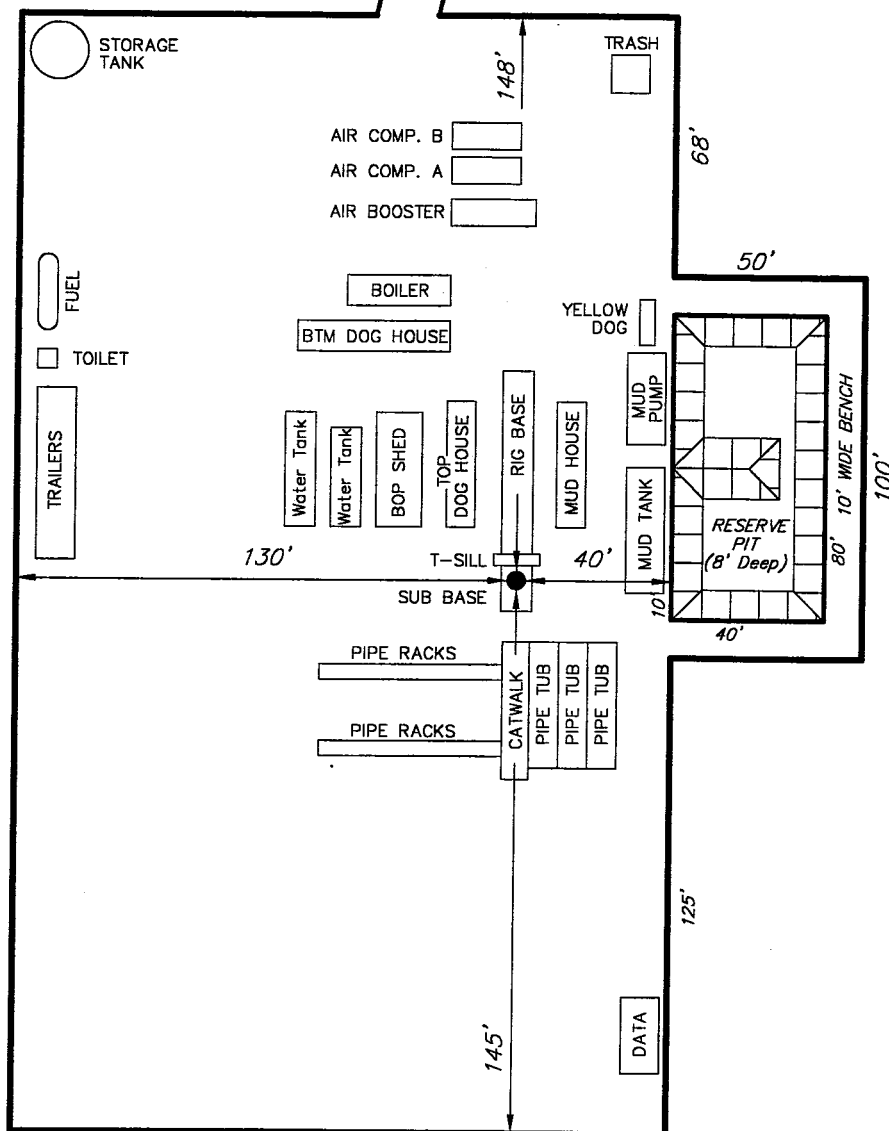
38 WEST 100 NORTH VERNAL, UTAH 84078

INLAND PRODUCTION COMPANY

TYPICAL RIG LAYOUT

GBU #1-27-8-17

PROPOSED ACCESS
ROAD (Max. 6% Grade)



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SURVEYED BY: R.J.

SCALE: 1" = 50'

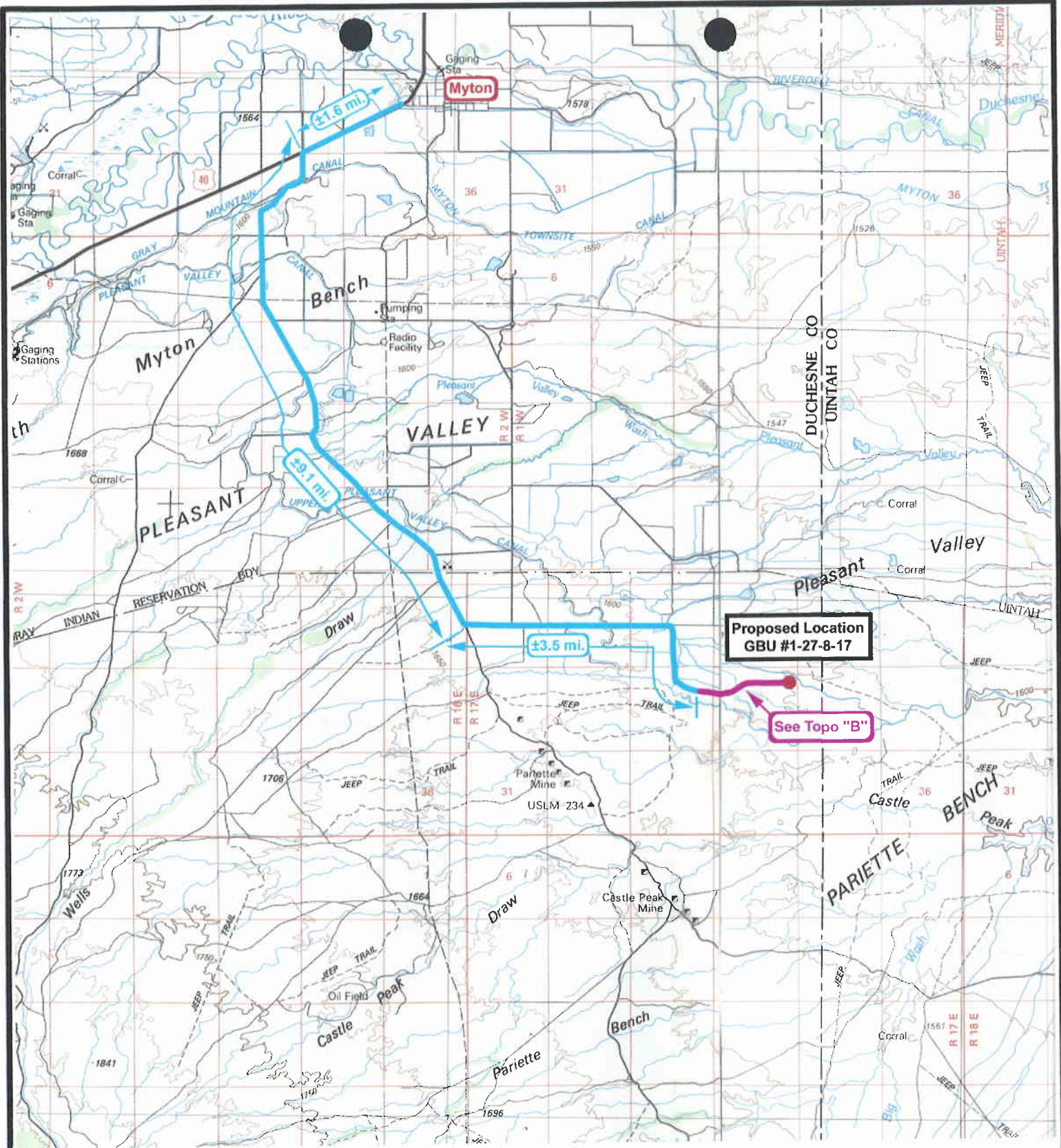
DRAWN BY: J.R.S.

DATE: 1-4-01

Tri State
Land Surveying, Inc.

(435) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078



GREATER BOUNDARY UNIT #1-27-8-17
SEC. 27, T8S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "A"

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Drawn By: bgm

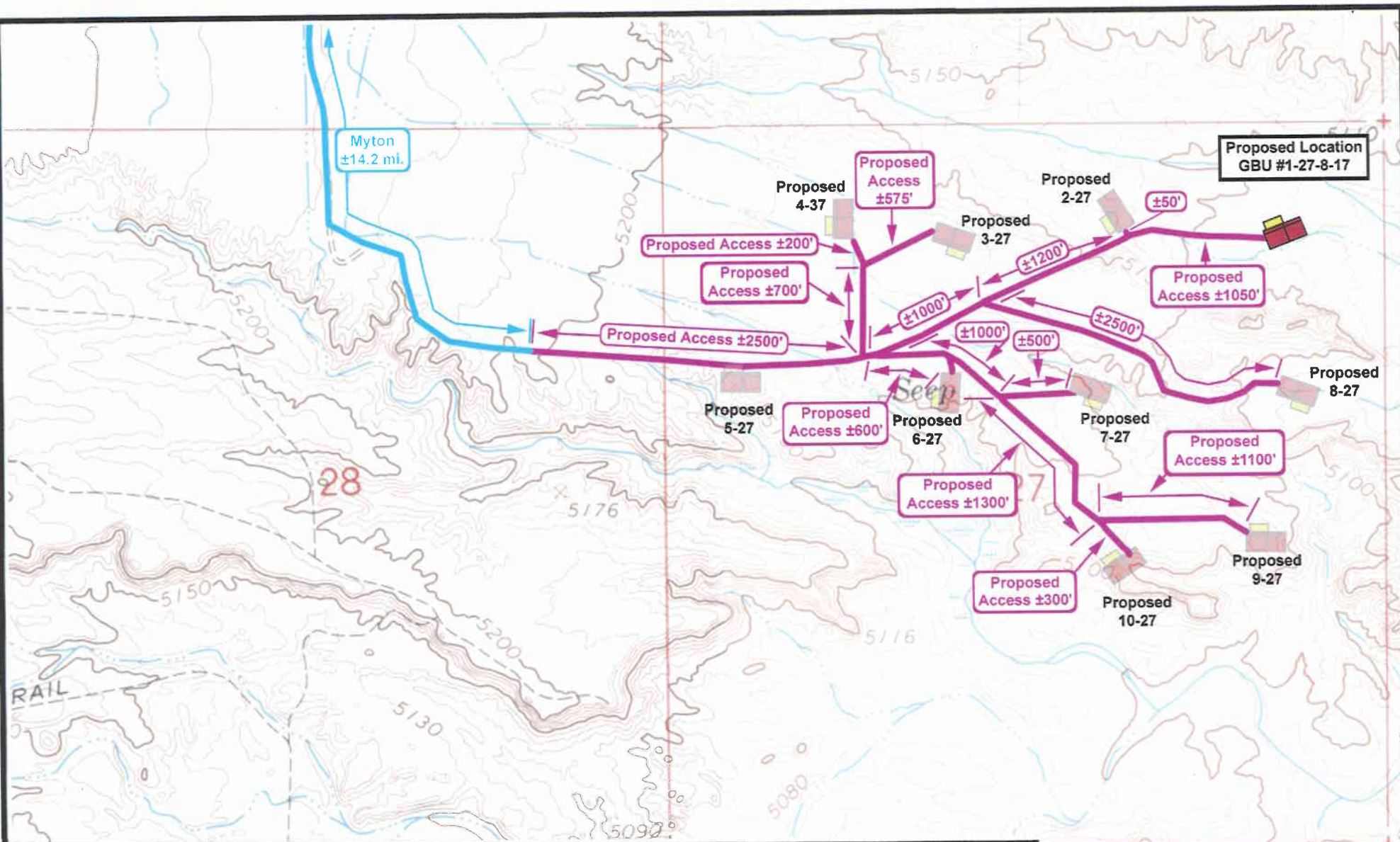
Revision:

Scale: 1 : 100,000

File:

Date: 02-01-2001

Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518



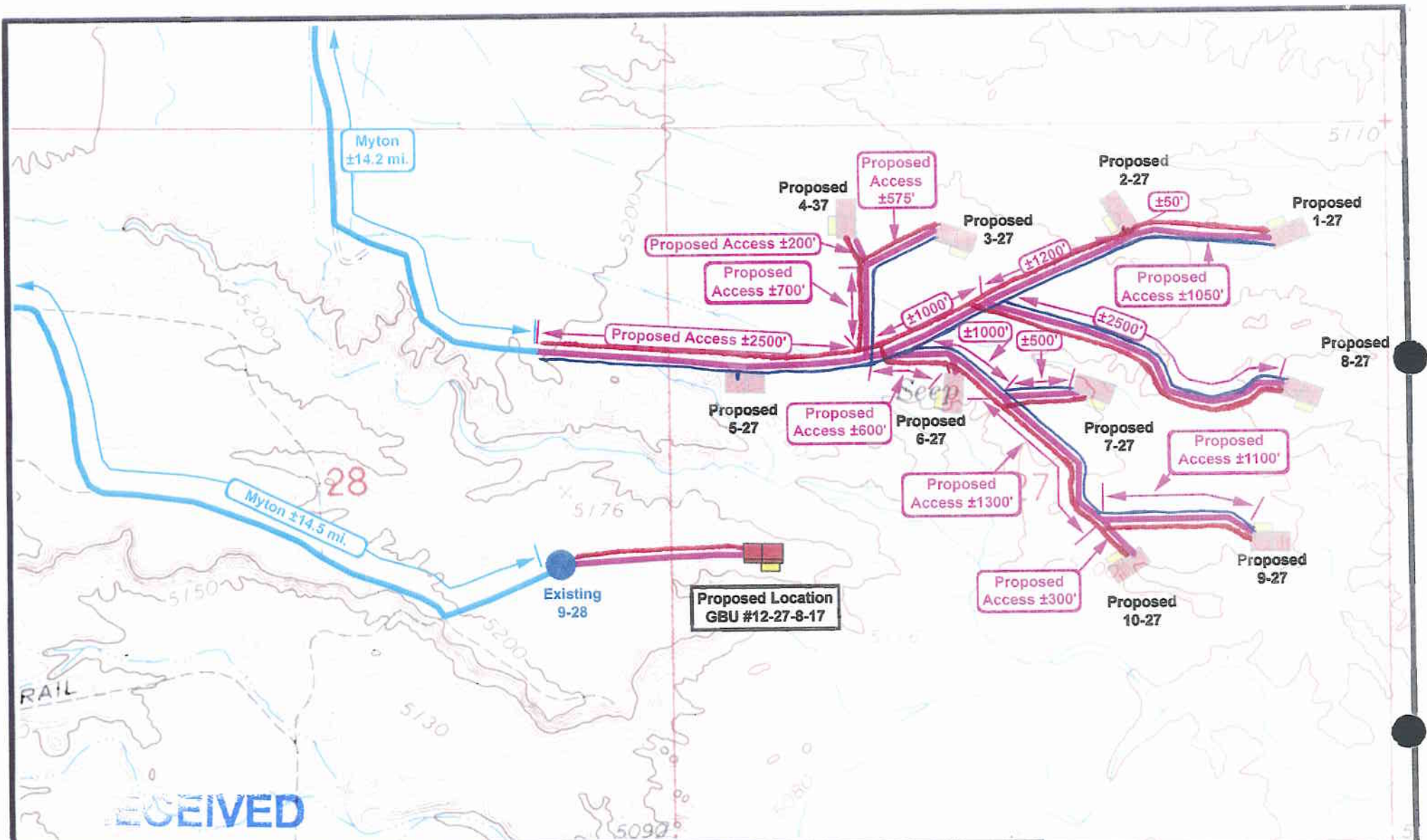
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SEC. 27, T8S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "B"

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Drawn By: bgm	Revision:
Scale: 1" : 1000'	File:
Date: 01-29-2001	
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MAR 29 2001

**Proposed Gas and Water Pipelines
Greater Boundary Unit Section 27, T8S, R17E
Topographic Map "C"**

— = GAS PIPELINE — = WATER PIPELINE

Drawn By: bgm

Revision:












Scale: 1" : 1000'

File:

Date: 02-08-2001

Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518

The image is a detailed geological map or land unit diagram. It features a large, irregularly shaped area filled with numerous small black dots, representing specific land parcels or geological features. This central area is divided into several smaller, rectangular sections by thin black lines. Each section is labeled with a name, such as "ASHCROFT UNIT", "WEST POINT UNIT", "MILLER CREEK UNIT", "HARRIS CREEK UNIT", "SANDY CREEK UNIT", "LONG CREEK UNIT", "WATERBURY UNIT", "LAWRENCE UNIT", "CLARK CREEK UNIT", "MILL CREEK UNIT", "PINE CREEK UNIT", "RIVER CREEK UNIT", "LAKE CREEK UNIT", "MOUNTAIN CREEK UNIT", "VALLEY CREEK UNIT", "HILLS CREEK UNIT", "FOREST CREEK UNIT", "MEADOW CREEK UNIT", "SWAMP CREEK UNIT", "FARM CREEK UNIT", "PASTURE CREEK UNIT", "WOOD CREEK UNIT", "FIELD CREEK UNIT", "GARDEN CREEK UNIT", "ORCHARD CREEK UNIT", "VINEYARD CREEK UNIT", "GRAPES CREEK UNIT", "OLIVE CREEK UNIT", "ALMOND CREEK UNIT", "PEACH CREEK UNIT", "APPLE CREEK UNIT", "PEAR CREEK UNIT", "PLUM CREEK UNIT", "CHERRY CREEK UNIT", "NUT CREEK UNIT", "COCONUT CREEK UNIT", "DATE CREEK UNIT", "FIG CREEK UNIT", "GUAVA CREEK UNIT", "JACKFRUIT CREEK UNIT", "MANGO CREEK UNIT", "PASSIFLORA CREEK UNIT", "STARFRUIT CREEK UNIT", "TAMARIND CREEK UNIT", "ACACIA CREEK UNIT", "BAOBAB CREEK UNIT", "CACTUS CREEK UNIT", "PALM CREEK UNIT", "SAGO CREEK UNIT", "BANANA CREEK UNIT", "MELON CREEK UNIT", "CUCURBIT CREEK UNIT", "LEGUME CREEK UNIT", "GRAIN CREEK UNIT", "ROOT CREEK UNIT", "STEM CREEK UNIT", "LEAF CREEK UNIT", "FLOWER CREEK UNIT", "SEED CREEK UNIT", "FRUIT CREEK UNIT", "BARK CREEK UNIT", "WOOD CREEK UNIT", "RESIN CREEK UNIT", "GUM CREEK UNIT", "SAP CREEK UNIT", "LATEX CREEK UNIT", "JUICE CREEK UNIT", "OIL CREEK UNIT", "ESSENCE CREEK UNIT", "EXTRACT CREEK UNIT", "INFUSION CREEK UNIT", "DECOCTION CREEK UNIT", "MACERATE CREEK UNIT", "TINCTURE CREEK UNIT", "COLICULTURE CREEK UNIT", "FERMENT CREEK UNIT", "DISTILL CREEK UNIT", "REFINE CREEK UNIT", "PURIFY CREEK UNIT", "CLEANSE CREEK UNIT", "WASH CREEK UNIT", "SOAK CREEK UNIT", "STEEP CREEK UNIT", "BOIL CREEK UNIT", "SIMMER CREEK UNIT", "POACH CREEK UNIT", "BLANCH CREEK UNIT", "PARBLEND CREEK UNIT", "GLAZE CREEK UNIT", "SAUCE CREEK UNIT", "DRESSING CREEK UNIT", "CONDIMENT CREEK UNIT", "SPICE CREEK UNIT", "HERB CREEK UNIT", "VEGETABLE CREEK UNIT", "FRUIT CREEK UNIT", "NUT CREEK UNIT", "SEED CREEK UNIT", "ROOT CREEK UNIT", "STEM CREEK UNIT", "LEAF CREEK UNIT", "FLOWER CREEK UNIT", "SEED CREEK UNIT". The map is set against a background of a larger grid. In the bottom left corner, there is a prominent "RECEIVED" stamp in bold, capital letters. Below it, the date "MAR 09 2001" is stamped. Further down, the text "DIVISION OF OIL, GAS AND MINING" is printed. In the bottom right corner, there is a small logo featuring a stylized bird or wing design next to the word "Info".

-  INJ
-  WTR
-  SWD
-  OIL
-  GAS
-  DRY
-  SHUTIN
-  SUSPENDED
-  ABND
-  Injection Stations
-  Unit Sections

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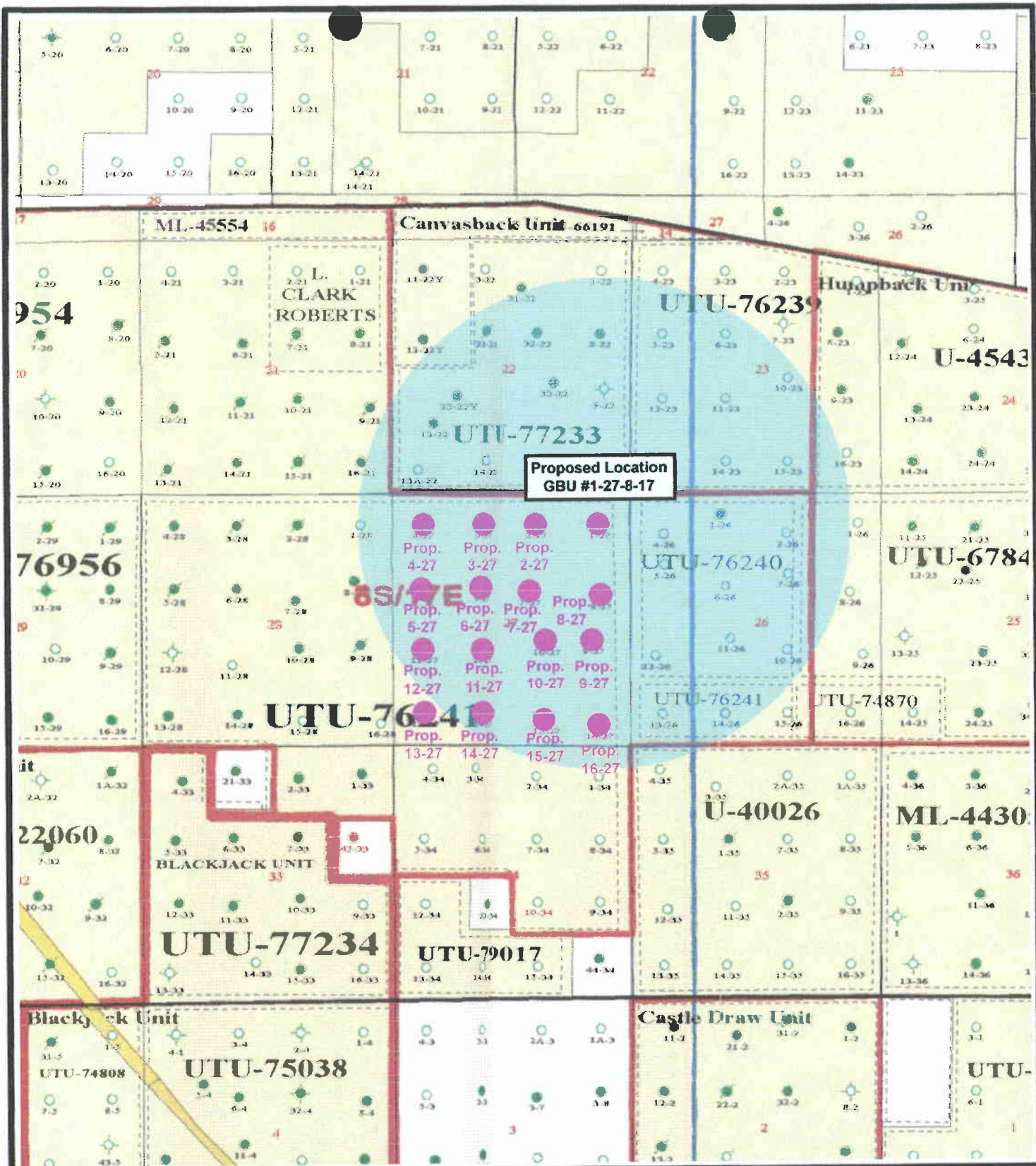
DIVISION OF
OIL, GAS AND MINING

410 17th Street Suite 700
Denver, Colorado 80202
Phone: (303) 897-0102

UINTA BASIN

Duchene & Uintah Counties, Utah

0.5 0 0.5 Miles



RESOURCES INC.

GREATER BOUNDARY UNIT #1-27-8-17

SEC. 27, T8S, R17E, S.L.B.&M.

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Drawn By: bgm

Revision:

Scale:

File:

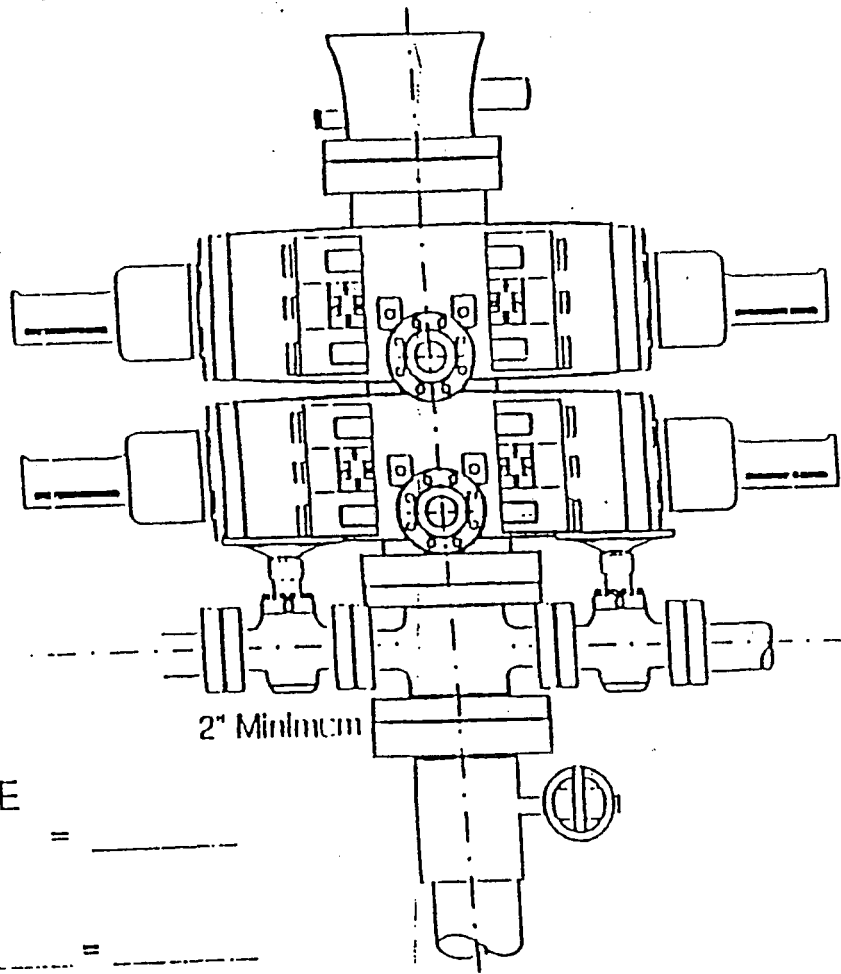
Date: 01-04-2001

Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518

EXHIBIT D

B.O.P.

2-M SYSTEM



O CLOSE

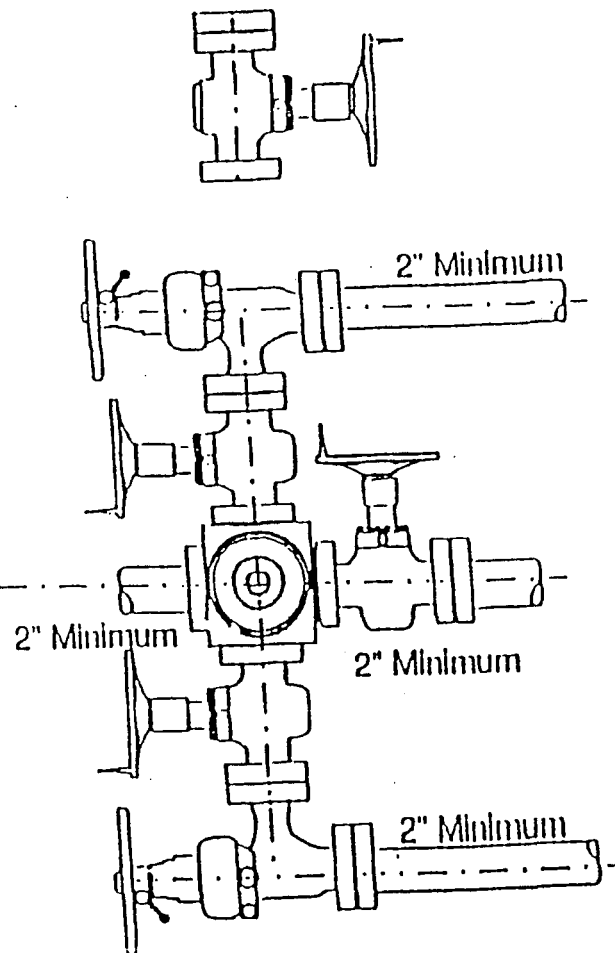
ar BOP = _____

ype BOP

rams x _____ = _____

= _____ Gal.

_____ x 2 = _____ Total Gal.



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EXHIBIT F

Adding oil to the next higher
Increment of 10 gal. would require
_____ Gal. (total fluid & nitro volume)

CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTION'S
WELLS DRAW 760 ACRE PARCEL
IN PLEASANT VALLEY, DUCHESNE COUNTY, UTAH

by

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Prepared For:

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

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ABSTRACT

In November, 2000, a cultural resource inventory of a 760 acre parcel for well development including access roads and pipelines was performed by Montgomery Archaeological Consultants for Inland Production. The project area is situated in the Pleasant Valley region of the Uintah Basin, in the Wells Draw vicinity and includes four inventory areas; a 40 acre in the NE1/4 of the NE1/4 of Sec. 27, T 8S, R 16E; a forty acre in the SW1/4 of the SW1/4 of Sec. 23, T 8S, R 16E; a 40 acre in the NE1/4 of the SW1/4 of 23, T 8S, R 16E; and a 640 acre in Sec. 27, T 8S, R 17E. A total of 760 acres was inventoried for cultural resources located on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office.

The archaeological survey resulted in the documentation of four historic temporary camps (42Dc1321, 42Dc1322, 42Dc1323, and 42Dc1324), two prehistoric temporary camps (42Dc1325 and 42Dc1355), six prehistoric lithic scatters (42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1353, and 42Dc1354), one prehistoric lithic and ceramic scatter (42Dc1352), one multi-component site consisting of a prehistoric lithic scatter and historic trash scatter (42Dc1351), and 17 isolated finds of artifacts (IF-A through IF-Q). Five of these sites are recommended as eligible to the NRHP: 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351, and 42Dc1355. Site 42Dc1325 is a prehistoric temporary camp with a fire cracked rock feature. Sites 42Dc1347 and 42Dc1348 are lithic scatters located in aeolian dunes. Site 42Dc1351 is a lithic scatter and historic trash scatter, also located on aeolian dunes. Site 42Dc1355 is a prehistoric temporary camp with two hearth features. All of these sites are recommended as eligible under criterion (D), due to the potential for buried cultural remains. Additional investigations at the site could provide significant data concerning site function, chronology, subsistence, and material culture.

Four historic sites, 42Dc1321, 42Dc 1322, 42Dc1323 and 42Dc1324 represent temporary range camps having a limited range of cultural materials. Additional investigations at these sites would fail to provide information relevant to historic research domains of the area. The prehistoric sites, 42Dc1349, 42Dc1350, 42Dc1352, 42Dc1353 and 42Dc1354 are recommended as not eligible for NRHP inclusion since they have an absence of additional diagnostic artifacts or features. Further research of these sites would not provide pertinent information to the prehistory of the area. The isolated finds of artifacts are also considered not eligible to the NRHP since they lack additional research potential.

The eligible sites (42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351 and 42Dc1355) need to be avoided by future development within the parcels. Based on adherence to this recommendation, a determination of "no historic properties affected" is recommended for this project pursuant to Section 106, CFR 800.

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INTRODUCTION

In November 2000, a cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) for Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley, Duchesne County, Utah. The project area is proposed for well development, access roads and pipelines. The survey was implemented at the request of Mr. John Holst, Permitting Agent, Inland Production Company. The project area occurs on land administered by the Bureau of Land Management (BLM), Vernal Field Office.

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area pursuant to a determination of "no effect" to historic properties in accord with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979 and the American Indian Religious Freedom Act of 1978.

The fieldwork was performed by Keith R. Montgomery, Principal Investigator for Montgomery Archaeological Consultants, aided in the field by Stan Ferris, Jay Willans, and Michael Wolfe. The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 00-UT-60122 and State of Utah Antiquities Project (Survey) No. U-00-MQ-0731b.

A file search for previous projects and documented cultural resources was conducted by Keith Montgomery at the BLM Vernal Field Office on October 30, 2000 and at the Utah Division of State History on November 3, 2000. These consultations indicated that no archaeological projects have been conducted in the immediate project area. However, various archaeological projects have been completed nearby. Archeological-Environmental Research Corporation (AERC) completed two surveys for Equitable Resources Energy Company in 1996, in T 9S, R 16E, Sec. 1 and 2, and T 8S, R 17E, Sec. 36, locating no new cultural resources (Hauck 1996a; 1996b). In 1997 AERC conducted an inventory for Inland Production in T 9S, R 17E Sec. 15 and 22, locating no cultural resources (Hauck and Hadden 1997). Sagebrush Consultants performed an inventory in 1997 for Inland Production in T 8S, R 17E, Sec. 28 and 29, documenting six prehistoric sites (42Dc1134 through 42Dc1139) and one historic site (42Dc1140) (Ellis 1997). In 1998 Sagebrush conducted another survey for Inland Production in T 9S, R 17E, Sec 3 and 10, locating two prehistoric sites (42Dc1191 and 42Dc1192), and one historic site (42Dc1190) (Polk 1998). JBR Environmental Consultants completed a survey for Inland Resources in 1998 situated in T 9S, R 17E, Sec. 1, locating no archaeological sites (Crosland and Billat 1998). In 1998 AERC performed an inventory for Inland Resources in several nearby sections, documenting 28 prehistoric sites (42Dc1149, 42Dc1150, 42Dc1155 through 42Dc1166, 42Dc1171, 42Dc1174 through 42Dc1177, 42Un 2532 through 42Un2538, 42Un2552, 42Un2566) (Hauck 1998). In summary, no archaeological sites have been documented in the immediate project area, however, a number of inventories near the project area have been performed, resulting in the documentation of both prehistoric and historic cultural resources.

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DESCRIPTION OF PROJECT AREA

Environmental Setting

The project area lies in the Pleasant Valley area of the Uinta Basin, to the south of Myton, Utah. The inventory area consists of a 760 acre parcel, allocated for development of well locations, access roads and pipelines. Three adjoining 40 acre parcels occur to the southeast of Wells Draw, approximately 6.5 miles southwest of Myton, Utah. The legal description for these parcels is T 8S, R 16E, Sections 23 and 27 (Figure 1). A 640 acre parcel lies about 4.5 miles to the east of this, along both sides of a tributary of Pariette Draw. The legal description for this parcel is T 8S, R 17E, Section 27 (Figure 2). Topographically, this area consists of highly dissected sandstone and mudstone rock formations and broad sandy silt ridges (Stokes 1986). The elevation ranges from 5550 to 5020 feet a.s.l. Pariette Draw is a major water source in the area, as is Wells Draw although it is ephemeral. The project area lies within the Upper Sonoran life zone, dominated by a shadscale community intermixed with low sagebrush, snakeweed, prickly pear cactus and a variety of low grasses. A riparian zone exists along the washes, and includes cottonwood, Russian olive, cattail, and tamarisk. Modern disturbances to the landscape include well locations, access roads, pipelines, and livestock grazing.

Cultural Overview

The cultural-chronological sequence represented in the study area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.). This stage is characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca. 12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7,000 B.P.). However, no such artifacts have been recovered in stratigraphic or chronometrically controlled contexts in northeastern Utah.

The Archaic stage (ca. 8,000 B.P. - 1,500 B.P.) is characterized by peoples depending on a foraging subsistence strategy, seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types perhaps reflecting the development of the atlatl in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of widespread Early Archaic exploitation is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the basin include sand dune sites and rockshelters clustered mainly in the lower White River drainage as well as along the Green River in the Browns Park and Flaming Gorge (Spangler 1995:373). Projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain plateau (Spangler 1995:374). The Middle Archaic period (ca. 3000-500 B.C.) is characterized by improved climatic conditions and increased human populations on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko

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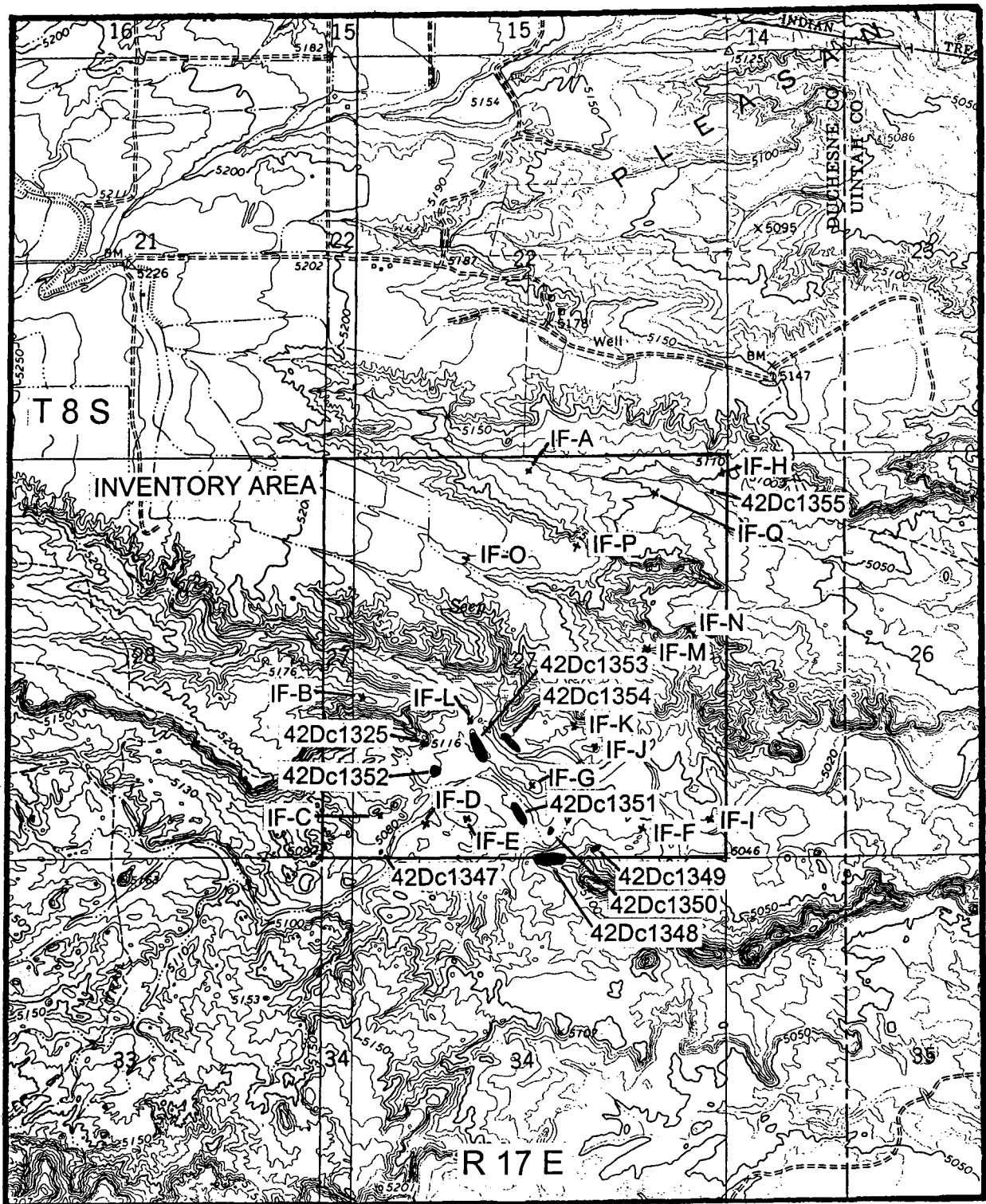


Figure 2. Inventory Area of Inland Production's Wells Draw 760 Acre Valley with Cultural Resources, Duchesne County, UT. USGS 7.5' Parallels Draw SW, UT 1964. Scale 1:24000.

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Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series atlatl points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cocklebur Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek (Tucker 1986).

The Formative stage (A.D. 500-1300) is recognized in the area by the Uinta Fremont as first termed by Marwitt (1970). This stage is characterized by reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse surface structures with randomly placed postholes and off-center firepits, some of which were adobe-rimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes and large-shouldered bifaces (Shields 1970).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Ute appear to have been hunter and gatherers exploiting various fauna and flora resources. According to macrobotanical and faunal data from dated components deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Ibid 191).

The cultural history of the Eastern Ute, comprising the bands living east of the Green River, has been divided into four phases (Reed 1988). The earliest and most tenuous phase is the Chipeta Phase, dated between ca. 1250 and 1400. Diagnostic artifacts include Desert Side-notched, Cottonwood Triangular, and small corner-notched arrow points and possibly Shoshonean knives. The Canalla phase (ca. A.D. 1400-1650) designates the period between the appearance of well-dated Uncompahgre brown ware ceramics and the adoption of an equestrian lifeway. Diagnostic artifacts include Uncompahgre Brown Ware ceramics, Desert Side-notched and Cottonwood Triangular points, and Shoshonean knives. The pedestrian hunter and gatherers probably lived in wickiups. Near the end of the phase, some groups may have obtained trade items from Spanish settlements in New Mexico (Horn, Reed, and Chandler 1994:131). The Antero phase (ca. A.D. 1650-1881) represents a shift to a fully equestrian lifestyle and integration of Euroamerican trade goods into Ute material culture. The horse permitted hunting of bison on the Plains and led to an increase in the importance of raiding for economic gain (Ibid 131). Euroamerican trade goods became important, and tepees as well as wickiups were inhabited.

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The early Utes in Uintah County were Uinta-ats, a small band of a few hundred members (Burton 1996:20). In pre-horse days, Ute family groups lived largely independently of others with key gathering, hunting, and fishing sites being communal and granted to all, within both the local and extralocal Ute communities (Ibid 340). According to Smith's (1974) informants both deer and buffalo were important game for the White River Ute band. Before the buffalo became extinct in the Uintah Basin in the 1830s, the Ute would make trips northeast of Fort Bridger in the vicinity of what is now Rock Springs and Green River, Wyoming using the horse to surround and drive the buffalo over a precipice (Callaway, Janetski, and Stewart 1986; Smith 1974). All Ute groups made tripod or conical houses with a three or four-pole foundation and a circular ground plan some 10 to 15 feet in diameter with covering brush or bark.

The first Euro-Americans in the Uinta Basin were Spanish missionaries, traveling between Santa Fe, New Mexico up through western Colorado, towards the Utah Valley, and on to California. In 1776, under the leadership of Fray Francisco Atanasio Dominguez and Fray Silvestre Velez de Escalante, the Spanish commenced to explore a northern route from Santa Fe to the garrison of Monterey on the California coast (Spangler et al. 1995). Euro-American traders were another early factor in the history of the Uinta Basin. Some of these were Spaniards, who continued to visit the region until the Mexican war of independence in 1821, when most Spanish were expelled from the Southwest. It was the beaver trade in the early part of the nineteenth century, that cemented trade with Ute and Shoshone in the area, and resulted in the establishment of trading posts along the major rivers in the area, including the Duchesne, Green, and Uinta (Spangler et al. 1995).

The settlement of the Uinta Basin differs from that of much of Utah in that early settlement in the area occurred around Indian "agencies" assigned to the Uinta and Ouray Reservations, rather than under the direction of the Mormon church (Spangler et al. 1995). These agencies consisted of cabins and a trading post with farms cropping up around the agency, and were directed by a government Indian agent. The first agency was constructed at the mouth of Daniels Canyon in 1864, and was moved several times before 1868. The Mormon church, under Brigham Young consigned survey parties to the Uinta Basin in the early 1860s, determining that the land was not very suitable for cultivation. For this reason, Mormon occupation of the area occurred later than in many parts of the state. By 1876, only a handful of ranchers, had settled the area, to be joined that year by a group of Mormons. They formed a settlement around the ranch of Pardon Dodds, an Indian agent, located in Dry Fork Canyon; later to become known as Old Ashley Town. Another small group of Mormon settlers arrived in 1878, camping near the confluence of Ashley Creek, and naming their settlement Incline. In 1878, additional Mormon settlers ventured into the area; locating near what is today Vernal. With agrarian pursuits being the focus of the majority of the Mormon communities in the region, water became a leading priority. In 1880 the Rock Point Canal and Irrigation Company built a six-mile long canal from the mouth of Ashley Canyon to various homesteads in the region. The Ashley Upper Irrigation Canal was constructed in 1880 with the purpose of yielding water from the Ashley Creek to Bingham Corner. Settlement increased rapidly, and many different water projects were initiated. Most of the canals and reservoirs in the region were built after 1905 by the Uintah Irrigation Project and the Dry Gulch Irrigation Company (Ibid 809-12).

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SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The 760 acre parcel was examined for cultural resources by the archaeologists walking parallel transects spaced no more than 10 m apart. Ground visibility was considered good. A total of 760 acres was inventoried on BLM administered land, Vernal Field Office.

Cultural resources were recorded as an archaeological site or isolated find of artifacts. Archaeological sites were defined as spatially definable areas with features and/or ten or more artifacts. Sites were documented by the archaeologists walking transects across the site, spaced no more than 3 m apart, and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. At the completion of the surface inspection, a Brunton compass was employed to point-provenience diagnostic artifacts and other relevant features in reference to the site datum, a steel rebar stamped with a temporary site number. Archaeological sites were plotted on a 7.5' USGS quadrangle, photographed, with site data entered on an Intermountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix A). Isolated finds are defined as individual artifacts or light scatter of items, which lack sufficient material culture to warrant IMACS forms, or to derive interpretation of human behavior in a cultural and temporal context. All isolated artifacts were plotted on a 7.5' USGS map and are described in this report.

INVENTORY RESULTS

The inventory of Inland Production's 760 acre parcel in Pleasant Valley resulted in the documentation of 14 newly-found archaeological sites (42Dc1321, 42Dc1322, 42Dc1323, 42Dc1324, 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1351, 42Dc1352, 42Dc1353, 42Dc1354, and 42Dc1355), and 17 isolated finds of artifacts (IF-A through IF-Q).

Archaeological Sites

Smithsonian Site No.: 42Dc1321

Temporary Site No.: 610-3

Legal Description: T 8S, R 16E, Sec. 23

Jurisdiction: BLM, Vernal Field Office

Description: This is a historic temporary camp dating between 1917 and 1945. It consists of a tin can scatter and a concentration of axe-cut wood fragments, possibly representing a firewood pile. The pile measures 4 meters by 2 meters and is located in the western portion of the site. The majority of artifacts are tin cans. These are dominated by hole in top evaporated milk cans. Of these, seven are stamped with "PUNCH HERE" (1935-1945). Eight sanitary cans are observed, including: a cut-around commodity stamped with an oval on the base, a cut-around commodity, a smashed, cut-around commodity with "CANCO" on the base (ca. 1923), a lard bucket, and a pry-lid commodity can. A rectangular pepper can, a key-opened coffee can, a coffee can lid, a piece of 3 1/2" horse tack, some bailing wire, and black rubber shoe sole fragments are also observed. The site occurs in an area of shallow soil and is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

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Smithsonian Site No.: 42Dc1322
Temporary Site No.: 610-4
Legal Description: T. 8S, R. 16E, Sec. 23
Jurisdiction: BLM, Vernal District Office

Description: This is a historic temporary camp dating between 1910 and 1950. The majority the artifacts are tin cans. These are dominated by five crushed, hole in top evaporated milk cans with two concentric raised rings on top and four hinged lid tobacco tins. Most of the other cans are sanitary and include: a cut-around commodity can lid; a crushed can fragment stamped with "840813" on the base; a crushed, cut-around sanitary can; a tuna or meat can; a pry-lid baking powder tin with a bail handle; and a 3/4" wide strip of a key-opened coffee can lid. One cut-around, hole in cap can is observed. Nine pieces of glass are noted, including: two rim fragments of a clear glass domestic vessel; three pieces of a small purple vessel of undetermined function; and four pieces of a brown patent medicine bottle with a patent finish and a linear design embossed on the shoulder. Also observed are a 2" long cartridge shell stamped with "Peters 25-36", one piece of bailing wire, a chunk of gilsonite, and a modern aluminum ointment tube with a screw lid. Two possible firewood collection piles are observed. Feature 1 (F-1) is a 7 meter x 8 meter concentration of 75+ pieces of axe-cut juniper wood. Feature 2 (F-2) is a smaller (4 meter x 4 meter) sparse concentration of axe-cut juniper fragments. The site is located in an area of shallow soil and is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1323
Temporary Site No.: 610-5
Legal Description: T 8S, R 16E, Sec. 23
Jurisdiction: BLM, Vernal Field Office

Description: This is a historic temporary camp consisting of a light scatter of glass and tin cans along with a small concentration of axe-cut juniper pieces, possibly a firewood collection pile. Approximately 30 pieces of clear glass are observed, including 10 fragments of a tubular-shaped Alka-Seltzer container, 10 pieces each of two different small screw finish bottles; one with a rectangular base embossed with "DES Pat 35925" and an unidentified trademark, and the other with a round base. The majority of the tin cans are hinged-lid tobacco tins (n=7). Other tin cans include: a crushed, sanitary, cut-around; a crushed, sanitary cut-around stamped with an oval shape on the top; a crushed, sanitary, cut-around fruit can; and a 1 lb. key-opened coffee can. Also observed are: an alarm clock back, a modern toothpaste tube and four pieces of bailing wire. The site is located in an area of shallow soil and lacks features with potential for depth, and hence is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1324
Temporary Site No.: 610-6
Legal Description: T 8S, R 16E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a historic temporary camp dating between 1908 and 1945, and consists of a tin can scatter, rock alignment, and firewood pile, along with a few other artifacts. The majority of artifacts are tin cans. These are dominated by 14 evaporated milk cans, four of which are stamped with "PUNCH HERE" (1935-1945). Other tin cans include: four crushed, hinged-lid tobacco tins; a crushed Hershey Cocoa tin with a pry-lid; six cut-around sanitary cans of various

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sizes; and three galvanized oil or gas cans with screw-lids and spouts, that have had the bottoms cut out. Also observed are: two pieces of clear window glass; six pieces of bailing wire; a piece of black leather with a round-head nail attached; three pieces of a leather boot including nine eyelets and four fast loops; and a center fire cartridge marked with "WRA Co 44 W.C.F" (post 1908). Feature 1 (F-1) is a rock alignment of unknown function, consisting of two sandstone rocks (20"x15" average size), and a sandstone slab (2" thick). A concentration of small, axe-cut pieces of juniper in an area measuring 4 meters x 3 meters is observed, as is a 8 meter x 16 meter area that exhibits an abundance of weeds, and is notably devoid of native plants, and may have been used for grazing.

Smithsonian Site No.: 42Dc1325
Temporary Site No.: 610-7
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a temporary camp located around an outcrop of large boulders (Figures 3 and 4). The site consists of a fire cracked rock concentration and 29 lithic tools. The majority of tools are unprepared chert cores. Other tools include: four hammerstones, one biface, three Stage I bifaces, three manos or mano fragments, and a slab metate. Also observed are approximately 150 pieces of lithic debitage with all reduction stages common. The materials utilized include various kinds of chert along with siltstone and quartzite. Feature 1 is a concentration of fire cracked rock located on the east side of a large boulder. The feature includes approximately 75 fire cracked and oxidized medium grained sandstone rock fragments (up to 25x15x10cm) scattered in an irregular configuration. No charcoal is visible, however a one meter diameter ash stain is apparent. A shallow (30 cm deep) drainage intersects the east margin of the feature. A petroglyph panel, possibly Archaic, is observed on a large boulder in the central portion of the site (Figure 5). The panel includes two solidly pecked figures, an anthropomorph and an elk, and measures 1.2 meters in length by 78 cm in height. A historic inscription occurs on a large boulder, incised with: "V O NEILSON", "1932", "VICK ROSS", "LEON".



Figure 3. 42Dc1325. Site overview. Photo is viewed to the southeast. Roll 610/3:11.

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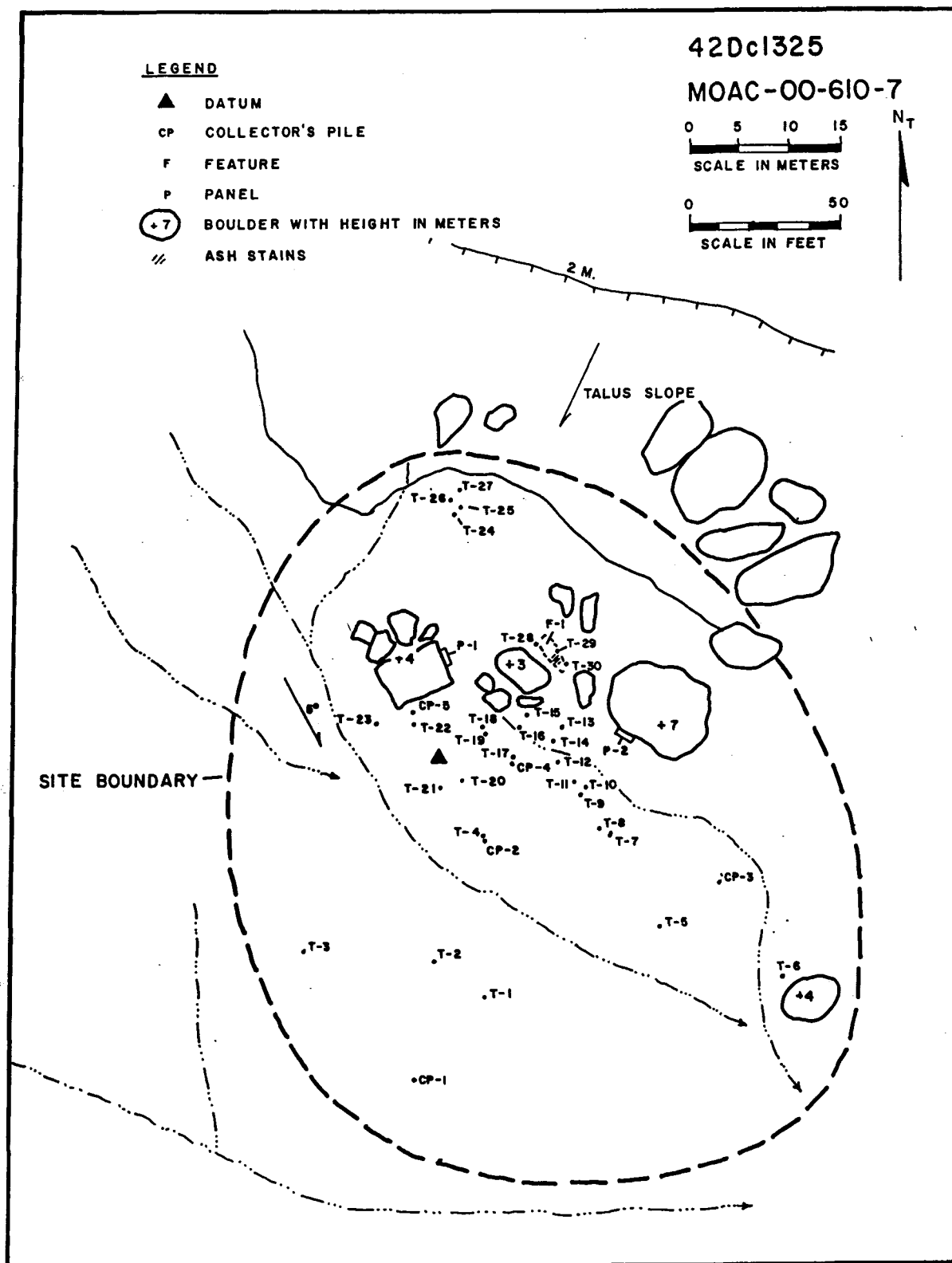


Figure 4. Site Map 42Dc1325.

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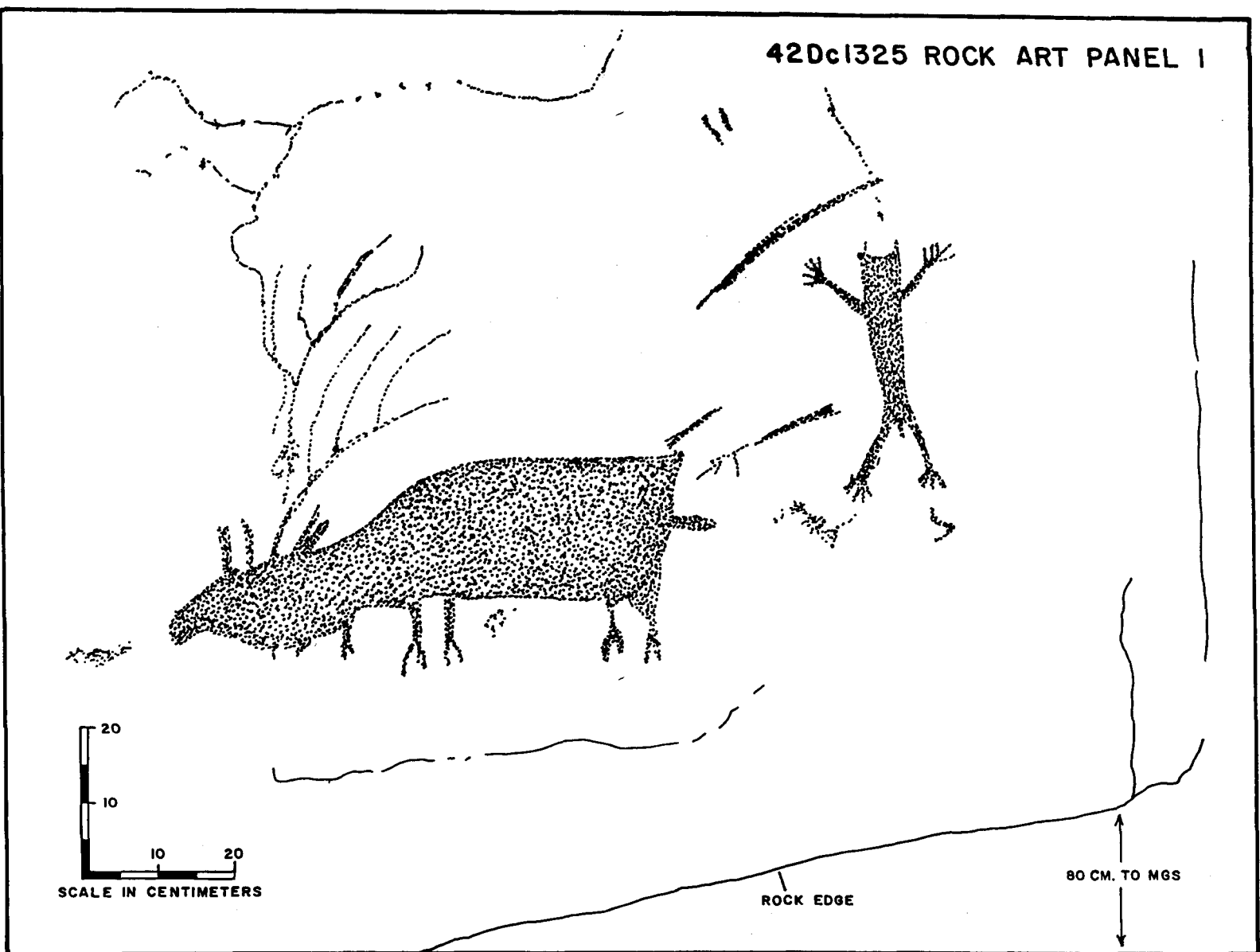


Figure 5. 42Dc1325. Rock Art Panel 1.

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Smithsonian Site No.: 42Dc1347
Temporary Site No.: 731-1
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located in a valley, within an area of sand dunes (Figures 6 and 7). Artifacts are dominated by secondary reduction stage flakes of various chert materials (n=118). The majority of flakes are located in a concentration towards the central portion of the site, as well as in two collector's piles, one of which contains 10 chert flakes, and the other 20 chert flakes. Several tools are observed, including two Stage II bifaces, a Stage III biface, two unprepared cores, and a single-handed cobble mano. An oxidized sandstone rock is located approximately one meter to the northwest of Tool 4. Due to the location in sand dunes, the site exhibits good potential for buried cultural remains and is recommended as eligible under criterion (D).



Figure 6. 42Dc1347. Site overview. Photo is viewed to the east. Roll 731/1:4.

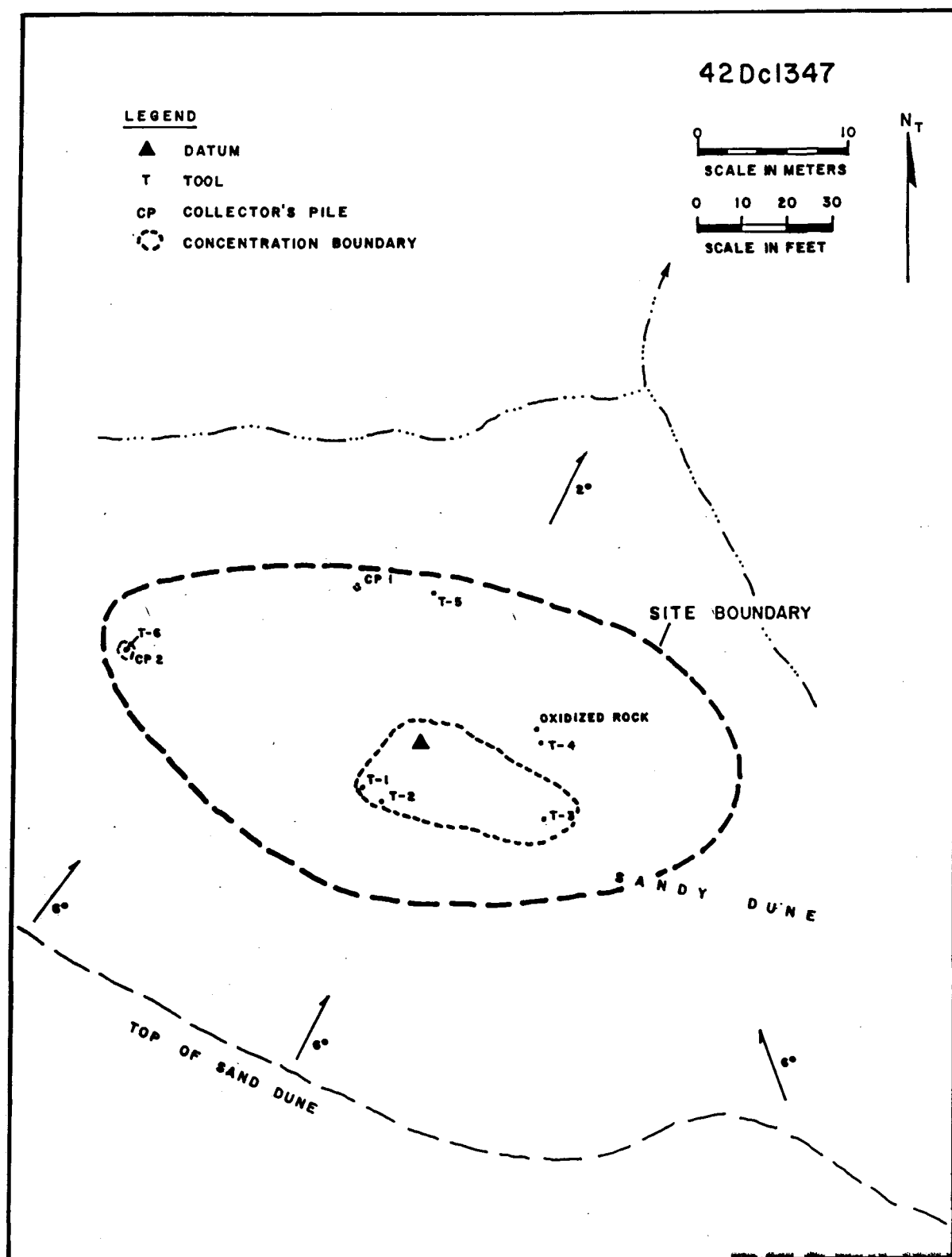
Smithsonian Site No.: 42Dc1348
Temporary Site No.: 731-2
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located in a valley, within an area of sand dunes (Figure 8). Artifacts at the site are dominated by secondary reduction stage flakes of various chert materials, with all other reduction stages represented (n=165). Tools include: five unprepared cores, three scrapers, two choppers, a Stage I and Stage II biface, a single-handed mano, two slab metates, and a ground stone fragment. Due to the location in sand dunes, the site exhibits good potential for buried cultural remains and is recommended as eligible under criterion (D).

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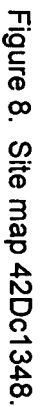


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Figure 7. Site map 42Dc1347.

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Smithsonian Site No.: 42Dc1349
Temporary Site No.: 731-3
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located on a terrace in a valley, in an area of thin residual soils covered with a veneer of small rocks. Artifacts are dominated by secondary reduction stage flakes of various chert materials, with primary flakes also represented (n=48). Tools include: a scraper, a prepared core, an unprepared core, two Stage I biface fragments, and two utilized flakes. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1350
Temporary Site No.: 731-4
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located on a terrace in a valley, in an area of thin, residual soils covered with a veneer of small rocks. Artifacts are dominated by secondary reduction stage flakes of various chert materials, with primary flakes also represented (n=48). Tools include: a scraper, a prepared core, an unprepared core, two Stage I biface fragments, and two utilized flakes. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1351
Temporary Site No.: 731-5
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a multi-component site consisting of a lithic scatter of unknown cultural affiliation and a historic trash scatter, located on a sand dune above an intermittent stream (Figures 9 and 10). Lithic debitage is dominated by secondary reduction stage flakes of various chert materials, with all reduction stages represented (n=27). Tools include an unprepared core, a spent core and a Stage II biface fragment. Feature 1 (F-1) is a concentration of 30+ fire cracked tabular-shaped sandstone rocks (up to 15x10x2cm). It is located in a 1.6 m by 1.0 m area and is eroding from a dune. No ash staining or charcoal is observed. Two sandstone slabs (up to 30x25cm) are located approximately two meters to the northwest of the feature. The historic artifacts are limited to a scatter of tin cans, dominated by five hole in top evaporated milk can fragments, along with one sanitary commodity can. Also observed are a deteriorated wash basin or bucket (H-1) and a large, rusted bucket or drum (H-10). The site exhibits good potential for buried cultural remains and is evaluated as eligible under criterion (D).

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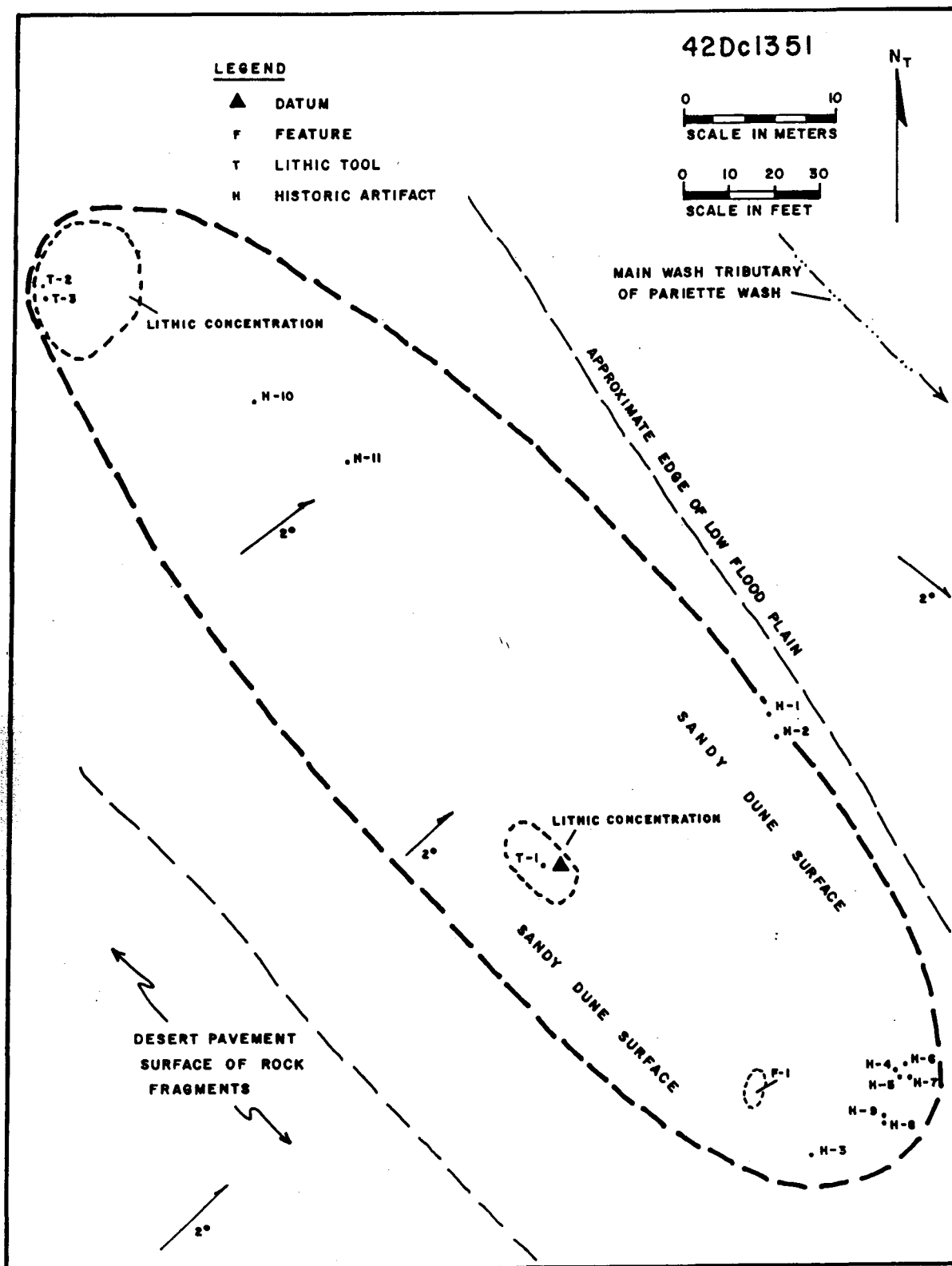


Figure 9. Site map 42Dc1351.

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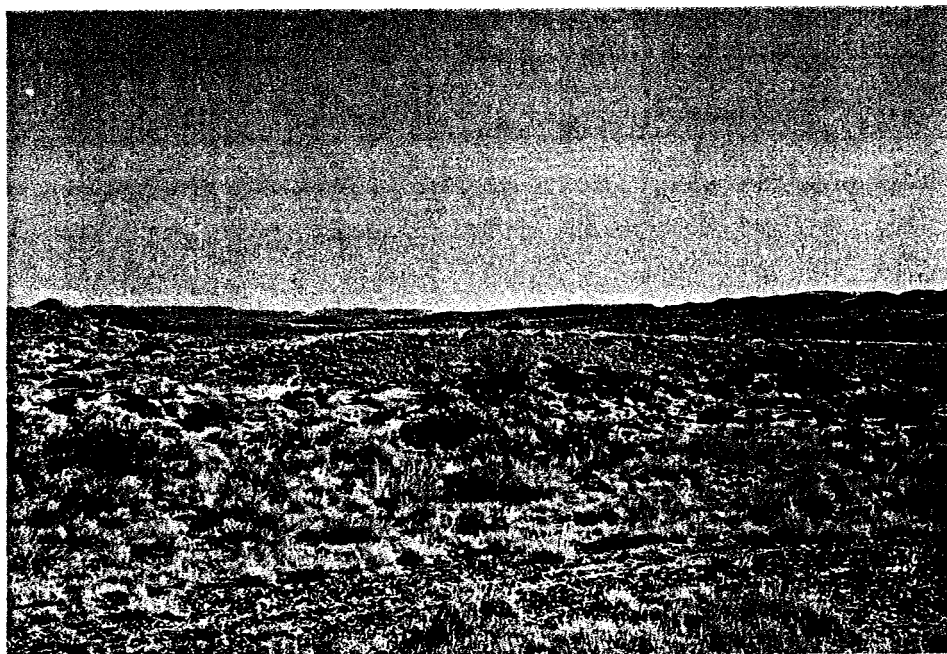


Figure 10. 42Dc1351. Site overview. Photo is viewed to the east. Roll 731/1:6.

Smithsonian Site No.: 42Dc1352
Temporary Site No.: 731-9
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a low density lithic and ceramic scatter situated on a southeast-trending slope of desert pavement near a tributary of Pariette Draw. It consists of 18 flakes of chert and quartzite material, 11 lithic tools, and a single Numic finger-indented brownware body sherd. The debitage includes 10 primary reduction stage flakes, and several secondary reduction stage flakes. Lithic tools consist of two scrapers, a single-handed mano fragment, and eight cores. The site is situated on desert pavement and shows little potential for buried cultural remains. It does not meet any of the eligibility criteria for inclusion to the NRHP, and the research potential has been exhausted by this documentation.

Smithsonian Site No.: 42Dc1353
Temporary Site No.: 731-6
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located on a bench above a tributary of Pariette Draw. Lithic debitage includes a nearly equal amount of secondary and primary reduction stage flakes of various chert materials (n=23). Tools include: six scrapers, four unprepared cores, four test cores, three choppers, three Stage I bifaces, one Stage III biface, one single-handed mano, and one hammerstone. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

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Smithsonian Site No.: 42Dc1354
Temporary Site No.: 731-7
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a low density lithic scatter of unknown cultural affiliation, located on a bench above a tributary of Pariette Draw. Lithic debitage is dominated by secondary reduction flakes of tan opaque chert and tan and brown opaque chert, with primary flakes also represented. One rose-colored quartzite primary flake is also noted. A high percentage of cobble cores occur on the site including: four unprepared cores, three test cores, and three prepared cores. Also documented are three choppers and a Stage I biface. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1355
Temporary Site No.: 731-8
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a temporary camp of unknown cultural affiliation situated on a southeast-facing bench near an unnamed stream (Figures 11 and 12). The site consists of a sparse, low density lithic scatter (10 flakes), five lithic tools, and two hearth features. The debitage is manufactured from chert and quartzite, and is dominated by primary reduction flakes. Lithic tools include two hammerstones and three cores. Feature 1 is a concentration of oxidized quartzite and sandstone cobble rocks (n=37), ranging in size from 7 to 17 cm diameter. The feature measures 1.0 by 4.5 m, and no ash or charcoal-stained soils are observed. Feature 2 is a scatter of oxidized quartzite rock fragments and cobbles (n=40), ranging in size from 5 to 15 cm diameter. The feature measures 3 m in diameter and no ash or charcoal-stained soils are observed. The thermal features lie on colluvial soils with potential for buried cultural materials. Thus, the site is evaluated as eligible for inclusion to the NRHP under criterion D, since it could yield additional information relevant to the prehistory of the area.



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Figure 11. 42Dc1355. Site overview. Photo is viewed to the northeast. Roll 731/2-9.

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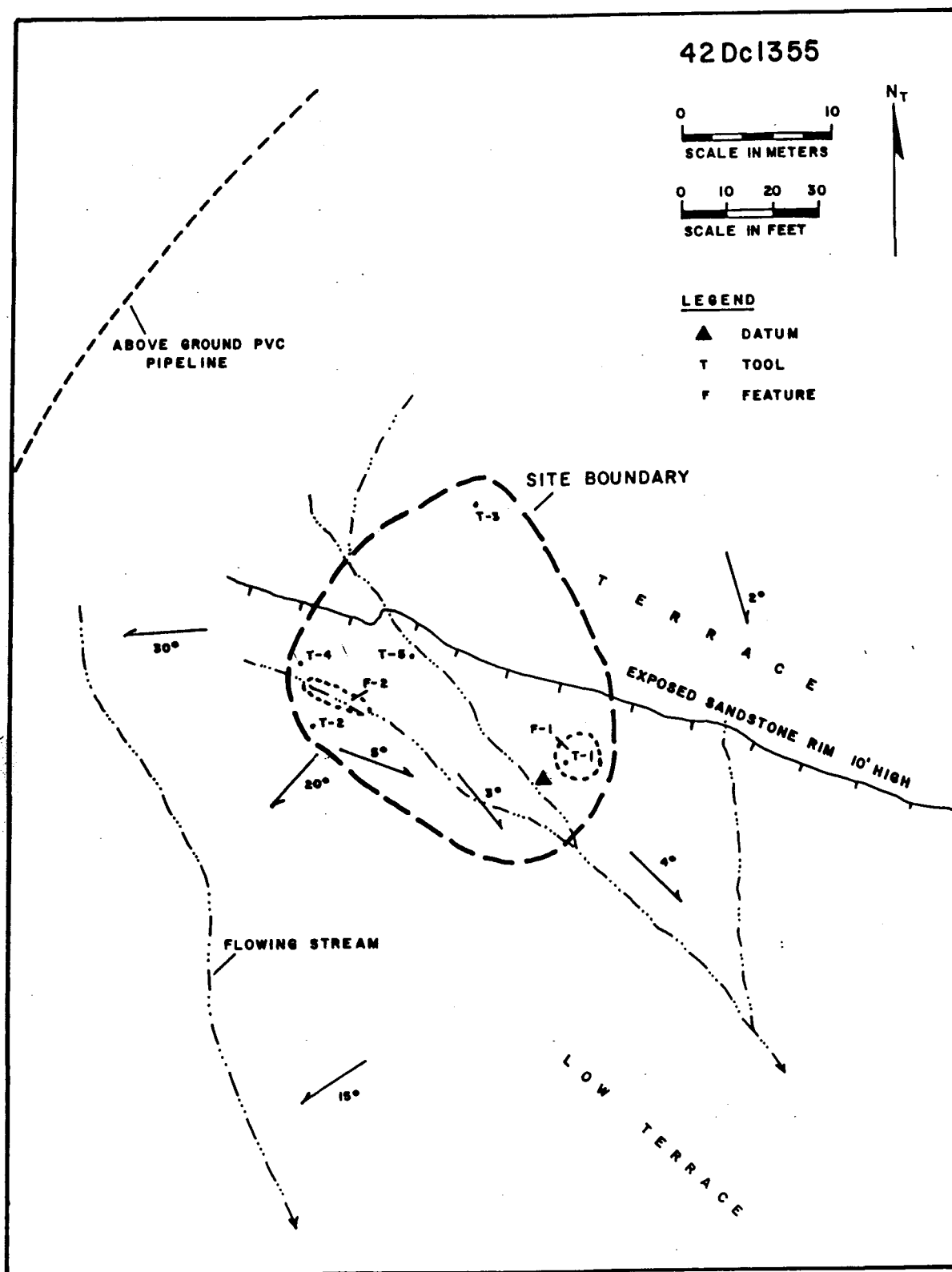


Figure 12. Site map 42Dc1355.

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Isolated Finds of Artifacts

Isolated Find A (IF-A) is located in the NE/NE/NW of S. 27, T 8S, R 17E (UTM 585940E-4438550N). It is a brown and tan opaque chert tabular prepared core with 30+ flakes detached from narrow margins (8x7x2cm).

Isolated Find B (IF-B) is located in the NW/NW/SW of S. 27, T 8S, R 17E (UTM 585300E-4437740N). It consists of two tan opaque chert secondary flakes.

Isolated Find C (IF-C) is located in the SE/SW/SW of Sec. 27, T 8S, R 17E (UTM 585370E-4437280N). It is a brownish-yellow opaque chert cobble hammerstone with battering on two poles (8x7x6cm).

Isolated Find D (IF-D) is located in the SW/SE/SW of Sec. 27, T 8S, R 17E (UTM 585560E-4437230N). It is a light gray opaque chert secondary flake.

Isolated Find E (IF-E) is located in the SW/SE/SW of Sec. 27, T 8S, R 17E (UTM 585720E-4437360N). It is a light gray opaque chert secondary flake.

Isolated Find F (IF-F) is located in the SW/SE/SE of Sec. 27, T 8S, R 17E (UTM 586410E-4437210N). It consists of two light gray opaque chert secondary flakes and one primary flake of the same material.

Isolated Find G (IF-G) is located in the NW/SW/SE of Sec. 27, T 8S, R 17E (UTM 585980E-4437400N). It includes three light gray opaque chert secondary flakes.

Isolated Find H (IF-H) is located in the NE/NE/NE of Sec. 27, T 8S, R 17E (UTM 586710E-4438640N). It is a gray opaque chert unprepared core with dark brown cortex and 5 flakes removed from narrow margins (9x8x3cm).

Isolated Find I (IF-I) is located in the SE/SE/SE of Sec. 27, T 8S, R 17E (UTM 585680E-4437260N). It consists of two light gray opaque chert secondary flakes.

Isolated Find J (IF-J) is located in the SE/NW/SE of Sec. 27, T 8S, R 17E (UTM 586220E-4437540N). It is a large secondary blank (13x8x3cm).

Isolated Find K (IF-K) is located in the SW/NW/SE of Sec. 27, T 8S, R 17E (UTM 586140-4437640N). It is a large ovate Stage II biface preform 18x6x4cm).

Isolated Find L (IF-L) is located in the SW/NESW of Sec. 27, T 8S, R 17E (UTM 585720E-4437630N). It consists of a two light gray opaque chert secondary flakes and a brown opaque chert unprepared core with 3 flakes removed from narrow margins (6x4x21cm).

Isolated Find M (IF-M) is located in the SW/SE/NE of Sec. 27, T 8S, R 17E (UTM 586440E-4437920N). It is a light gray opaque chert unprepared core with dark brown cortex and four flakes detached from wide margins (8x6x3.5cm).

Isolated Find N (IF-N) is located in the SE/SE/NE of Sec. 27, T 8S, R 17E (UTM 586580E-4438000N). It is an ovate-shaped, light gray opaque chert unprepared core with dark brown cortex and 20+ flakes removed from narrow and wide margins (7.0x5.5x2.0cm).

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Isolated Find O (IF-O) is located in the NW/SE/NW of Sec. 27, T 8S, R 17E (UTM 585710E-4438300N). It includes two light gray opaque chert secondary flakes.

Isolated Find P (IF-P) is located in the SW/NW/NE of Sec. 27, T 8S, R 17E (UTM 586140E-4438360N). It is a light gray opaque chert decortication flake.

Isolated Find Q (IF-Q) is located in the NW/NE/NE of Sec. 27, T 8S, R 17E (UTM 586430E-4438660N). It is a light gray opaque chert unprepared core with dark brown cortex and 4 flakes removed from narrow margins (7x5x2cm).

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory of the Inland Production's 760 acre parcel in Pleasant Valley resulted in the documentation of four historic temporary camps (42Dc1321, 42Dc1322, 42Dc1323, and 42Dc1324), two prehistoric temporary camps (42Dc1325 and 42Dc1355), six prehistoric lithic scatters (42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1353, and 42Dc1354), one prehistoric lithic and ceramic scatter (42Dc1352), and one multi-component site consisting of a prehistoric lithic scatter and historic trash scatter (42Dc1351). Five of these sites are recommended as eligible to the NRHP under criterion (D): 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351, and 42Dc1355. Site 42Dc1325 is a prehistoric temporary camp with a fire cracked rock feature. Sites 42Dc1347 and 42Dc1348 are lithic scatters located in aeolian dunes. Site 42Dc1351 is a lithic scatter and historic trash scatter, also located on aeolian deposition. Site 42Dc1355 is a prehistoric temporary camp with two hearth features. All of these sites are recommended as eligible due to the potential for buried cultural remains. Additional investigations at these sites could provide significant data concerning site function, chronology, subsistence, and material culture.

Four historic sites, 42Dc1321, 42Dc1322, 42Dc1323 and 42Dc1324 represent temporary livestock camps having a limited range of cultural materials. Additional investigations at these sites would fail to provide information relevant to historic research domains of the area. Five

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prehistoric sites (42Dc1349, 42Dc1350, 42Dc1352, 42Dc1353, and 42Dc1354) are recommended as not eligible for NRHP inclusion since they have an absence of additional diagnostic artifacts or features. Further research of these sites would not provide pertinent information to the prehistory of the area. The isolated finds of artifacts are also considered not eligible to the NRHP since they lack additional research potential.

MANAGEMENT RECOMMENDATIONS

The inventory resulted in the documentation of five sites that are recommended as eligible to the NRHP. These include: two prehistoric temporary camps (42Dc1325 and 42Dc1355); two lithic scatters (42Dc1347 and 42Dc1348); and one multi-component site consisting of a lithic scatter and historic trash scatter (42Dc1351). All of these sites need to be avoided by the future development within the parcel. Based on these findings, a determination of "no historic properties affected" is recommended for this project pursuant to Section 106, CFR 800.

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APPENDIX A

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS)
SITE INVENTORY FORMS

On File At:

U.S. Bureau of Land Management
Vernal Field Office
Vernal, Utah

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DIVISION OF
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WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/09/2001

API NO. ASSIGNED: 43-013-32228

WELL NAME: GBU 1-27-8-17

OPERATOR: INLAND PRODUCTION (N5160)

CONTACT: JON HOLST

PHONE NUMBER: 970-481-1202

PROPOSED LOCATION:

NENE 27 080S 170E

SURFACE: 0733 FNL 0726 FEL

BOTTOM: 0733 FNL 0726 FEL

DUCHESNE

MONUMENT BUTTE (105)

LEASE TYPE: 1-Federal

LEASE NUMBER: UTU-76241

SURFACE OWNER: 1-Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed~~1~~ Ind[] Sta[] Fee[]
(No. 4488944)
☒ Potash (Y/N)
☒ Oil Shale (Y/N) *190-5 (B) or 190-3
☒ Water Permit
(No. MUNICIPAL)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)

LOCATION AND SITING:

☐ R649-2-3. Unit GREATER BOUNDARY
☐ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
☐ R649-3-3. Exception
☒ Drilling Unit
Board Cause No: 225-2 * Unit & Enh. Rec.
Eff Date: 4-8-98
Siting: * Suspends Gen. Siting
☐ R649-3-11. Directional Drill

COMMENTS:

Mon. Butte Field SOP, separate file.

STIPULATIONS:

① FEDERAL APPROVAL

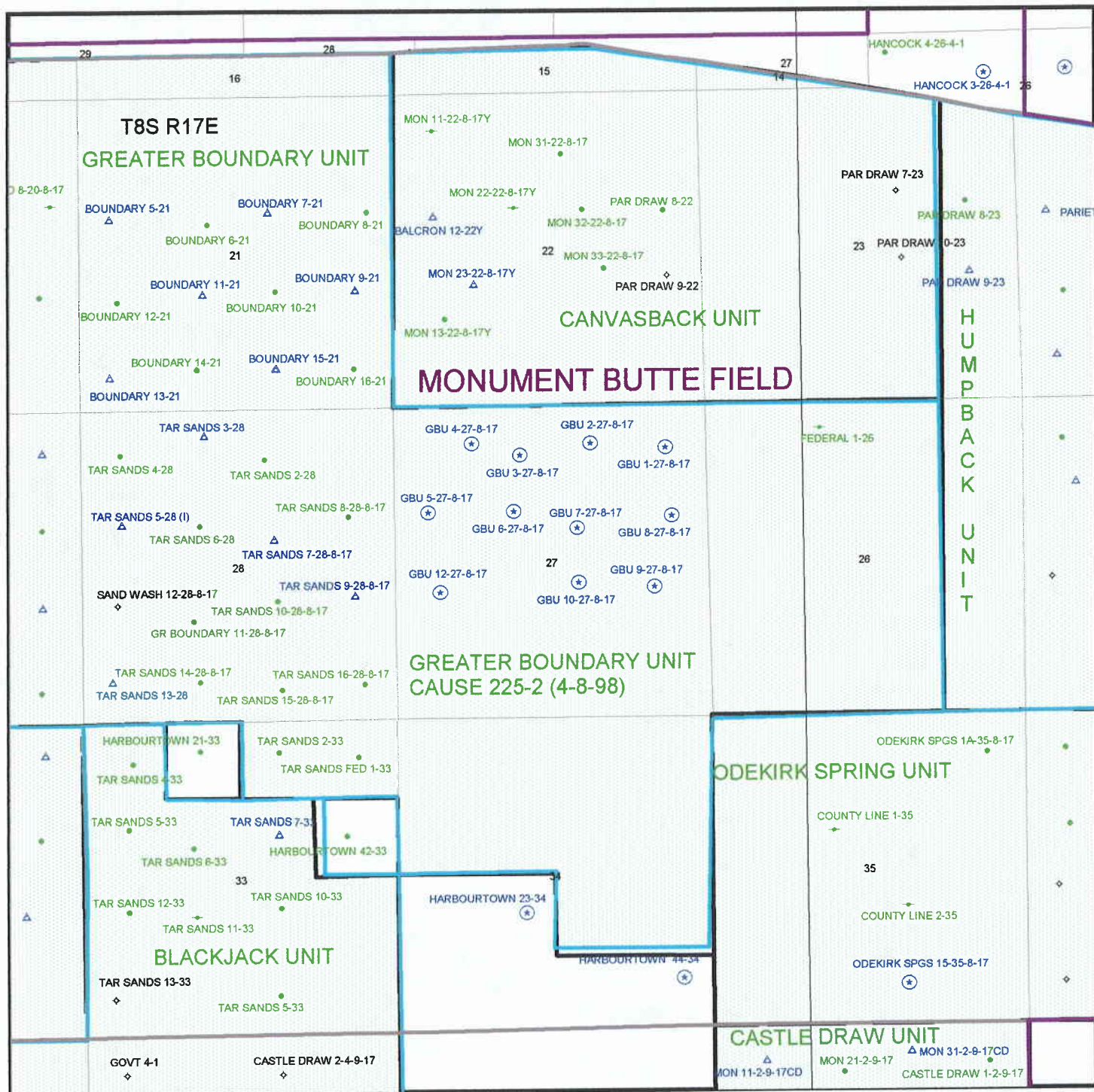


OPERATOR: INLAND PROD CO (N5160)

FIELD: MONUMENT BUTTE (105)

SEC. 27, T8S, R17E,

COUNTY: DUCHESNE UNIT: GREATER BOUNDARY
CAUSE: 225-2





State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

March 15, 2001

Inland Production Company
410 - 17th St, Suite 700
Denver, CO 80202

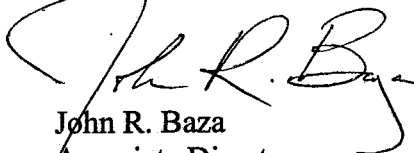
Re: Greater Boundary Unit 1-27-8-17 Well, 733' FNL, 726' FEL, NE NE, Sec. 27, T. 8 South,
R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32228.

Sincerely,



John R. Baza
Associate Director

er

Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: Inland Production Company
Well Name & Number Greater Boundary Unit 1-27-8-17
API Number: 43-013-32228
Lease: UTU 76241

Location: NE NE **Sec.** 27 **T.** 8 South **R.** 17 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐

1b. TYPE OF WELL

OIL GAS SINGLE MULTIPLE
WELL ☒ WELL ☐ OTHER ☐ ZONE ☒ ZONE ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

410 - 17th Street, Suite 700, Denver, CO 80202

Phone: (303) 893-0102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At Surface NE/NE 733' FNL & 726' FEL

At proposed Prod. Zone

5. LEASE DESIGNATION AND SERIAL NO.

UTU-76241

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Greater Boundary

8. FARM OR LEASE NAME WELL NO

#1-27-8-17

9. API WELL NO.

10. FIELD AND POOL OR WILDCAT

Monument Butte

11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

NE/NE

Sec. 27, T8S, R17E

12. County

Duchesne

13. STATE

UT

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

14.2 miles southeast of Myton, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY
OR LEASE LINE, FT. (Also to

Approx. 733' f/lse line

16. NO. OF ACRES IN LEASE

1760

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL,
DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

Approx. 1320'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5083.2' GR

22. APPROX. DATE WORK WILL START*

2nd QTR 01

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Refer to Monument Butte Field SOP's Drilling Program/Casing Design				

Inland Production Company proposes to drill this well in accordance with the attached exhibits.

Draft Conditions of Approval are attached.

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MAY 07 2001

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED [Signature] TITLE Permitting Agent DATE 2/28/01

(This space for Federal or State office use)

NOTICE OF APPROVAL

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Assistant Field Manager DATE 04/30/2001

Assistant Field Manager
Mineral Resources

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL ATTACHED

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 1-27-8-17

API Number: 43-013-32228

Lease Number: U -76241

Location: NENE Sec. 27 T. 08S R. 17E

Agreement: Greater Boundary Unit

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at $\pm 1,805$ ft.

SURFACE USE PROGRAM
Conditions of Approval (COA)
Inland Production Company - Well No. 1-27-8-17

Plans For Reclamation of Location:

All seeding for reclamation operations at this location shall use the following seed mixture:

mat saltbush	Atriplex corrugata	4 lbs/acre
gardners saltbush	Atriplex gardneri	4 lbs/acre
galleta grass	Hilaria jamesii	4 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

Other Information:

To prevent drilling fluids from entering perennial waters of a near by drainage the reserve pit shall be lined.

If the operator determines that fill material is necessary to be placed on constructed surfaces to prevent water saturated soils of the access road and well pad those materials will be removed at the time of reclamation.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR: INLAND PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84652

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					CG	SC	TP	RG	COUNTY		
B A	99999	12391	43-013-32228	Boundary #1-27-8-17	NE/NE	27	8S	17E	Duchesne	May 10, 2001	05/10/01
WELL 1 COMMENTS: 5-31-01											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					CG	SC	TP	RG	COUNTY		
B A	99999	12391	43-013-32226	Boundary #12-27-8-17	NW/SW	27	8S	17E	Duchesne	May 18, 2001	05/18/01
WELL 2 COMMENTS: 5-31-01											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					CG	SC	TP	RG	COUNTY		
B	99999	10835	43-013-30843	Mon. Butte #8-34-8-16	SE/NE	34	8S	16E	Duchesne	February 28, 1984	05/07/01
WELL 3 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					CG	SC	TP	RG	COUNTY		
WELL 4 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					CG	SC	TP	RG	COUNTY		
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A- Establish new entity for new well, single well only.
- S- Add new well to existing entity (prod or unprod).
- C- Re-assign well from one existing entity to another existing entity.
- D- Re-assign well from one existing entity to new entity.
- E- Other (additions, modifications, etc.)

NOTE: Use COMMENT section to explain why each Action Code was selected

355

Kathie S. Jones
Signature

Kathie S. Jones

Production Clerk
Title

May 31, 2001
Date

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION COMPANY

Well Name: GBU 1-27-8-17

Api No. 43-013-32228 LEASE TYPE: FEDERAL

Section 27 Township 08S Range 17E County DUCHESNE

Drilling Contractor LEON ROSS DRILLING RIG # 14

SPUDDED:

Date 05//10/2001

Time 1:00 PM

How DRY

Drilling will commence _____

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 05/11/2001 Signed: CHD

(June 1990)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil
WellGas
Well

Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

733' FNL & 726' FEL NE/NE Sec.27, T8S, R17E

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Greater Boundry

8. Well Name and No.

1-27-8-17

9. API Well No.

43-013-32228

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, Utah.

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other

Spud

Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is direction-ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On 5/10/01 MIRU Ross #14. Drill 300' of 12 1/4" hole with air mist. TIH w/ 7 Jt's 85/8" J-55 24# csgn. Set @ 310.98'/KB On 5/19/01 cement with 145 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 5 bbls cement returned to surface. WOC

RECEIVED

MAY 22 2001

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed

Pat Wisener
Pat Wisener

Title

Drilling Foreman

Date

05/21/2001

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 310.98

LAST CASING 8 5/8" SET AT 310.98'
 DATUM 10' KB
 DATUM TO CUT OFF CASING _____
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 300' LOGGER _____
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company
 WELL Greater Boundry 1-27-8-17
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Ross #14

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		shjt 33.04'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	291.13
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.			FEET	JTS	TOTAL LENGTH OF STRING		292.98
TOTAL LENGTH OF STRING			292.98	7	LESS CUT OFF PIECE		1
LESS NON CSG. ITEMS			1.85		PLUS DATUM TO T/CUT OFF CSG		10
PLUS FULL JTS. LEFT OUT			0		CASING SET DEPTH		310.98
TOTAL			291.13	7	} COMPARE		
TOTAL CSG. DEL. (W/O THRDS)			291.13	7			
TIMING			1ST STAGE				
BEGIN RUN CSG.			SPUD	05/10/2001	GOOD CIRC THRU JOB <u>YES</u>		
CSG. IN HOLE			1:00pm		Bbls CMT CIRC TO SURFACE <u>5</u>		
BEGIN CIRC					RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE		
BEGIN PUMP CMT					DID BACK PRES. VALVE HOLD ? <u>N/A</u>		
BEGIN DSPL. CMT					BUMPED PLUG TO _____ 200 _____ PSI		
PLUG DOWN			Cemented	05/10/2001			
CEMENT USED		CEMENT COMPANY- BJ					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	145	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT				SHOW MAKE & SPACING			
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Pat Wisener

DATE 05/19/2001

OIL GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒

Oil
Well

☐

Gas
Well

☐

Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

733' FNL & 726' FEL NE/NE Sec.27, T8S, R17E

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Greater Boundry

8. Well Name and No.

1-27-8-17

9. API Well No.

43-013-32228

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, Utah.

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

Weekly Status Report

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Weekly Status report for the period 6/10/01 thru 6/17/01.

On 6/8/01 MIRU Union #14. Set equipment. Nipple up. Test BOP's, Choke manifold, Kelly, TIW. To 2,000 psi. Test 85/8" csgn to 1,500 psi. State office of DOGM & Vernal BLM was notified of the test. PU & MU bit # 1 Tag cement @ 274'. Drill 77/8" hole with air mist to a depth of 3494'. TOH with drill string & BHA. PU & MU bit #2, MM, & BHA drill 77/8" hole with water based mud to a depth of 6349'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 51/2" csg, Float collar & 149 jt's J-55 15.5 # 51/2" csgn. Set @ 6324'/KB. Cement with 525* sks. 50/50 POZ w/ 3% KCL, 1/4#sk Cello-Flake, 2% Gel, .3%SMS, .05#sk Static free, Mixed @ 14.4PPG >1.24 YLD. Then 365* sks Prem Litell w/ 3% KCL, 3#/sk Kolseal, 8% Gel, .5SMS, 5#sk BA90, mixed @ 11.0PPG >3.43 Good returns thru job with 2 bbls Cement returned to pit. Set slips with 80,000# tension. Nipple down BOP's. Release rig @ 4:30am on 6/16/01. WOC.

14. I hereby certify that the foregoing is true and correct

Signed

Pat Wisener
Pat Wisener

Title

Drilling Foreman

Date

06/18/2001

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

RECEIVED

JUN 19 2001

INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6324.65

Ftcllr@6309'

LAST CASING 8 5/8" SET AT 310.98'

OPERATOR Inland Production Company

DATUM 10' KB

WELL Greater Boundry 1-27-8-17

DATUM TO CUT OFF CASING

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE

CONTRACTOR & RIG # Union #14

TD DRILLER 6339' LOGGER 6339

HOLE SIZE 7 7/8"

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
							14.4
		35'flag @ 5400 & 38' flag @ 4480					
149	5 1/2"	Maverick LT & C casing	15.5#	J-55	8rd	A	6299
		Float collar			8rd	A	0.65
1	5 1/2"	Maverick LT & C casing	15.5#	J-55	8rd	A	14.4
		Guide shoe			8rd	A	0.6

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	6329.05
TOTAL LENGTH OF STRING	6329.05	150	LESS CUT OFF PIECE	14.4
LESS NON CSG. ITEMS	15.65		PLUS DATUM TO T/CUT OFF CSG	10
PLUS FULL JTS. LEFT OUT	0		CASING SET DEPTH	6324.65

TOTAL	6313.4	150	} COMPARE	
TOTAL CSG. DEL. (W/O THRDS)	6313.4	150		
TIMING	1ST STAGE	2nd STAGE		
BEGIN RUN CSG.	6:00pm		GOOD CIRC THRU JOB	yes
CSG. IN HOLE	9:15pm		Bbls CMT CIRC TO SURFACE	2bbls
BEGIN CIRC	10:15pm	10:15 PM	RECIPROCATED PIPE FOR 15 mins. THRU 6' FT STROKE	
BEGIN PUMP CMT	11:48pm	12:19am	DID BACK PRES. VALVE HOLD ?	yes
BEGIN DSPL. CMT	12:48am		BUMPED PLUG TO	1450 PSI
PLUG DOWN	1:14am			

CEMENT USED		CEMENT COMPANY- BJ
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	365	Premilite II W/ .5% SMS, 10% gel, 3#/sk BA90, 3#/sk kolseal, 3% KCL, 1/4#/sk C.F., .05#/sk staticfree mixed @ 11.0 ppg W/ 3.43 cf/sk yield
2	525	50/50 poz W/ 3% KCL, 1/4#/sk C.F., 2% gel, .3% SMS, .1R3 .05#/sk staticfree mixed @ 14.4 ppg W/ 1.24 cf/sk yield
		SHOW MAKE & SPACING

CENTRALIZER & SCRATCHER PLACEMENT

One on middle of first jt, one on collar of second & third jts, then every third collar for a total of 20.

RECEIVED

JUN 19 2001

COMPANY REPRESENTATIVE Pat Wisener

DATE DIVISION OF
OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT - -" for such proposals

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Greater Boundry Unit

8. Well Name and No.

1-27-8-17

9. API Well No.

43-013-32228

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

Route #3 Box 3630 Myton, Utah 84052 435-646-3721

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

733' FNL & 726' FEL NE/NE Section 27, T8S, R17E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Status report**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Status report for time period 7/16/00 through 7/2200.
Subject well had completion procedures initiated on 7/14/00. A total of four Green River intervals were perforated and fracture treated W/ 20/40 mesh sand. Bridge plugs and sand plugs were removed from wellbore. Zones were swab tested to clean up sand. Production equipment was ran in well. Well began producing on rod pump on 7/21/01.

14. I hereby certify that the foregoing is true and correct

Signed

Gary Dietz
Gary Dietz

Title

Completion Foreman

Date

26-Jul-01

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

(See other
instruction
reverse side)

OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

1b. TYPE OF WELL

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other _____

2. NAME OF OPERATOR

INLAND RESOURCES INC.

3. ADDRESS AND TELEPHONE NO.

410 17th St. Suite 700 Denver, CO 80202

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*

At Surface 733' FNL & 726' FWL NENE S 27, T8S & R17E

FEL

At top prod. Interval reported below

At total depth

14. API NO.

43-013-32228

DATE ISSUED

2/23/01

12. COUNTY OR PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED

5/10/01

16. DATE T.D. REACHED

6/15/01

17. DATE COMPL. (Ready to prod.)

7/21/01

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5083' GR

19. ELEV. CASINGHEAD

5093' KB

20. TOTAL DEPTH, MD & TVD

6339' KB

21. PLUG BACK T.D., MD & TVD

6324' KB

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

----->

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

Green River 4502' - 6154'

7-5-01

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIGL/SP/CDL/GR/Cal - 7-13-01

25. WAS DIRECTIONAL SURVEY MADE

No

27. WAS WELL CORED

No

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	311' KB	12-1/4"	To surface with 145 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6324' KB	7-7/8"	365 sx Premilite II and 525 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @	TA @
	6215' KB	6116' KB

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER
CP sands) 6145-54', 6058-63', 5931-39'		
5996'-6006'	0.38"	128
(B sands) 5369-88'	0.38"	76
(GB sands) 4608-12', 4502-08'	0.38"	40

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5931'-6154'	Frac w/ 135,800# 20/40 sand in 822 bbl. Fluid.
5369'-5388'	Frac w/ 106,720# 20/40 sand in 759 bbl. Fluid.
4502'-4612'	Frac w/ 48,660# 20/40 sand in 391 bbl. Fluid.

33.* PRODUCTION

DATE FIRST PRODUCTION 7/21/01		PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 15' RHAC Pump				WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 10 day ave	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD ----->	OIL--BBL. 77.5	GAS--MCF. 47.4	WATER--BBL. 28.5	GAS-OIL RATIO 612
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.) API 27.00	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold & Used for Fuel

TEST WITNESSED BY

DIVISION OF

35. LIST OF ATTACHMENTS

OIL, GAS AND WATER

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Kevin S. Weller

TITLE

Manager of Development Operations

DATE

8/23/01

BDH

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);	38. GEOLOGIC MARKERS			
	FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
				Greater Boundary Unit #1-27-8-17
				Garden Gulch Mkr 4083'
				Garden Gulch 2 4388'
				Point 3 Mkr 4663'
				X Mkr 4898'
				Y-Mkr 4935'
				Douglas Creek Mkr 5020'
				BiCarbonate Mkr 5338'
				B Limestone Mkr 5502'
				Castle Peak 5889'
				Basal Carbonate 6311'
				Total Depth (LOGGERS)



August 23, 2001

State of Utah, Division of Oil, Gas and Mining
Attn: Ms. Carol Daneils
P.O. Box 145801
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daneils

Greater Boundary Unit #1-27-8-17
Greater Boundary Unit #2-27-8-17
Duchesne County, UT

Dear Ms. Carol Daneils

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Dave Jull of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 893-0102 ext. 1449

Sincerely,

Brian Harris
Engineering Tech

Enclosures

cc: Bureau of Land Management
Vernal District Office, Division of Minerals
Attn: Edwin I. Forsman
170 South 500 East
Vernal, Utah 84078

Well File – Denver
Well File – Roosevelt
Patsy Barreau/Denver
Bob Jewett/Denver

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well



Oil Well



Gas well



Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17th Street, Suite 700, Denver, Colorado 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NE/NE

733' FNL, 726' FEL

Sec. 27, T8S, R17E

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

NA

7. If unit or CA, Agreement Designation

Greater Boundary

8. Well Name and No.

GBU 1-27-8-17

9. API Well No.

43-013-32228

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION



Notice of Intent



Abandonment



Change of Plans



Subsequent Report



Recompletion



New Construction



Final Abandonment Notice



Plugging Back



Non-Routine Fracturing



Casing repair



Water Shut-off



Altering Casing



Conversion to Injection



Other _____



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed

David Gerbig
David Gerbig

Title

Operations Engineer

Date

3-3-03

(This space of Federal or State office use.)

Approved by _____

Title _____

Date _____

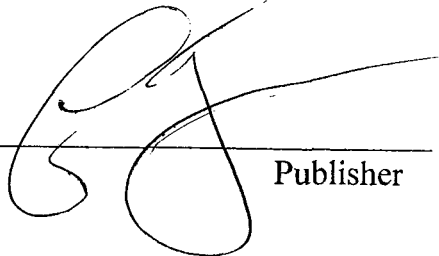
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

AFFIDAVIT OF PUBLICATION

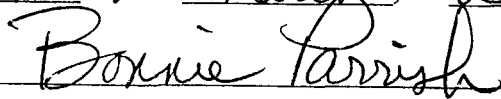
County of Duchesne,
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 18 day of March, 2003, and that the last publication of such notice was in the issue of such newspaper dated the 18 day of March, 2003.

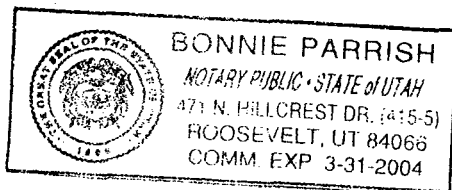


Publisher

Subscribed and sworn to before me this
18 day of March, 2003



Notary Public



NOTICE OF AGENCY ACTION CAUSE NO. UIC 306

BEFORE THE DIVISION OF OIL, GAS AND MINING, DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH


IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE TAR SANDS FEDERAL 9-31-8-17 WELL LOCATED IN SEC. 31, T8S, R17E, AND BALCRON FEDERAL 24-3Y-9-17 WELL LOCATED IN SEC. 3, T9S, R17E, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Tar Sands Federal 9-31-8-17 well, located in NE/4 SE/4 Sec. 31, T8S, R17E, and Balcron Federal 24-3Y-9-17 well located in Sec. 3, T9S, R17E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Sand Wash and Black Jack Units. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

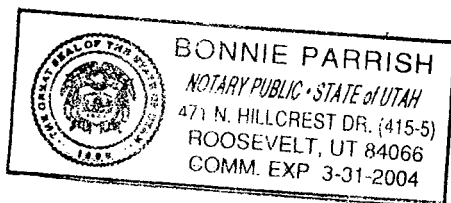
Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding.


Publisher

Subscribed and sworn to before me this
18 day of March, 2003

Bonnie Parrish
Notary Public



WELLS
THE STATE OF UTAH
TO ALL PERSONS IN-
TERESTED IN THE
ABOVE ENTITLED
MATTER.

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Dated this 11th day of March, 2003.

STATE OF UTAH
DIVISION OF OIL,
GAS & MINING

John R. Baza
Associate Director

Published in the Uintah
Basin Standard March 18,
2003.

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D.# 87-0217663

Newspaper Agency Corporation

Salt Lake Tribune



DESERET NEWS

CUSTOMER'S
COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	02/27/03

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201XGQK1
SCHEDULE	
START 02/27/03 END 02/27/03	
CUST. REF. NO.	
UIC305	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
58 LINES 2.00 COLUMN	
TIMES	
1	
MISC. CHARGES	
.00	

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

NOTICE OF AGENCY ACTION
CAUSE NO. UIC 305

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE BALCRON FED 22-10Y-9-17 WELL LOCATED IN SEC 10, T9S, R17E, AND ASHLEY FED 5-12-9-15 WELL LOCATED IN SEC 12, T9S, R15E, DUCHESNE COUNTY, UTAH AS CLASS II INJECTION WELLS.

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Dated this 20th day of February, 2003.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING

/s/ John R. Baza
Associate Director
8201XGQK

AFFIDAVIT OF PUBLICATION

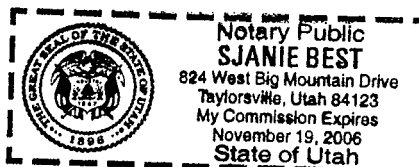
AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA FOR DIV OF OIL-GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 02/27/03 END 02/27/03

SIGNATURE

Sjanie Best

DATE 02/27/03



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TOTAL COST	
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STATE OF UTAH
DIVISION OF OIL, GAS & MINING

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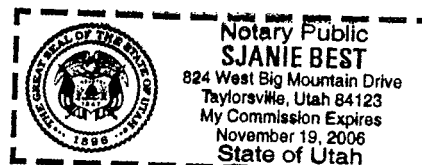
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SIGNATURE Sjanie Best

DATE 02/27/03



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58 LINES 2.00 COLUMN	
TIMES	BALCRON FED 22-104-9-17 95 17E 10 21-10-9-17 ?
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MISC. CHARGES	
.00	

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

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STATE OF UTAH
DIVISION OF OIL, GAS & MINING

/s/ John R. Baza
Associate Director
8201XGQK

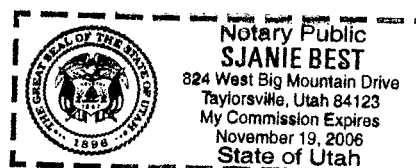
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SIGNATURE Janie Best

DATE 02/27/03



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DIVISION OF OIL, GAS & MINING

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Associate Director
8201XGQK

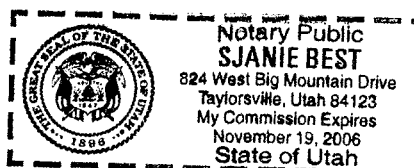
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PUBLISHED ON START 02/27/03 END 02/27/03

SIGNATURE Janie Best

DATE 02/27/03



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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well



Oil Well



Gas well



Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17th Street, Suite 700, Denver, Colorado 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NE/NE

733' FNL, 726' FEL

Sec. 27, T8S, R17E

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

NA

7. If unit or CA, Agreement Designation

Greater Boundary

8. Well Name and No.

GBU 1-27-8-17

9. API Well No.

43-013-32228

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing repair



Altering Casing



Other _____



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed

David Gerbig
David Gerbig

Title

Operations Engineer

Date

5-3-03

(This space of Federal or State office use.)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



February 24, 2003

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
Post Office Box 145801
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well
Greater Boundary Unit #1-27-8-17 *INDIAN COUNTRY*
Monument Butte Field, Greater Boundary Unit, Lease #UTU-76241
Section 27-Township 8S-Range 17E
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Greater Boundary Unit #1-27-8-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Greater Boundary Unit.

We also request permission to add additional perforations between the Garden Gulch and Basal Limestone formations at that time. All work will be detailed in a Sundry Notice.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

David Gerbig
Operations Engineer

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

RECEIVED

MAR 06 2003

DIV. OF OIL, GAS & MINING

INLAND PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
GREATER BOUNDARY UNIT #1-27-8-17
MONUMENT BUTTE FIELD (GREEN RIVER) FIELD
GREATER BOUNDARY UNIT
LEASE #UTU-76241
FEBRUARY 24, 2003

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STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company
ADDRESS 410 17th Street, Suite 700
Denver, Colorado 80202

Well Name and number:		<u>Greater Boundary Unit 1-27-8-17</u>	
Field or Unit name:		<u>Monument Butte (Green River) Greater Boundary Unit</u>	Lease No. <u>UTU-76241</u>
Well Location: QQ	<u>NE/NE</u>	section <u>27</u>	township <u>8S</u> range <u>17E</u> county <u>Duchesne</u>
Is this application for expansion of an existing project? Yes [X] No []			
Will the proposed well be used for:		Enhanced Recovery? Yes [X] No []	
		Disposal? Yes [] No [X]	
		Storage? Yes [] No [X]	
Is this application for a new well to be drilled?	 Yes [] No [X]	
If this application is for an existing well,			
has a casing test been performed on the well?		Yes [] No [X]	
Date of test: _____			
API number: <u>43-013-32228</u>			
Proposed injection interval: from <u>4388'</u> to <u>6311'</u>			
Proposed maximum injection: rate <u>500 bpd</u> pressure <u>1687</u> psig			
Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2 mile of the well.			
<div style="border: 1px solid black; padding: 5px; display: inline-block;">IMPORTANT: Additional information as required by R615-5-2 should accompany this form.</div>			
List of Attachments: <u>Attachments "A" through "H-1"</u>			
I certify that this report is true and complete to the best of my knowledge.			
Name:	<u>David Gerbig</u>	Signature	<u><i>David Gerbig</i></u>
Title	<u>Operations Engineer</u>	Date	<u>3-3-03</u>
Phone No.	<u>(303)893-0102</u>		
(State use only)			
Application approved by _____		Title _____	
Approval Date _____			
Comments:			

Greater Boundary Unit #1-27-8-17

Spud Date: 5/10/2001
Put on Production: 7/23/2001
GL: 5083' KB: 5093'

Initial Production: 77.5 BOPD,
47.4 MCFD, 28.5 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (302')
DEPTH LANDED: 310'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt.

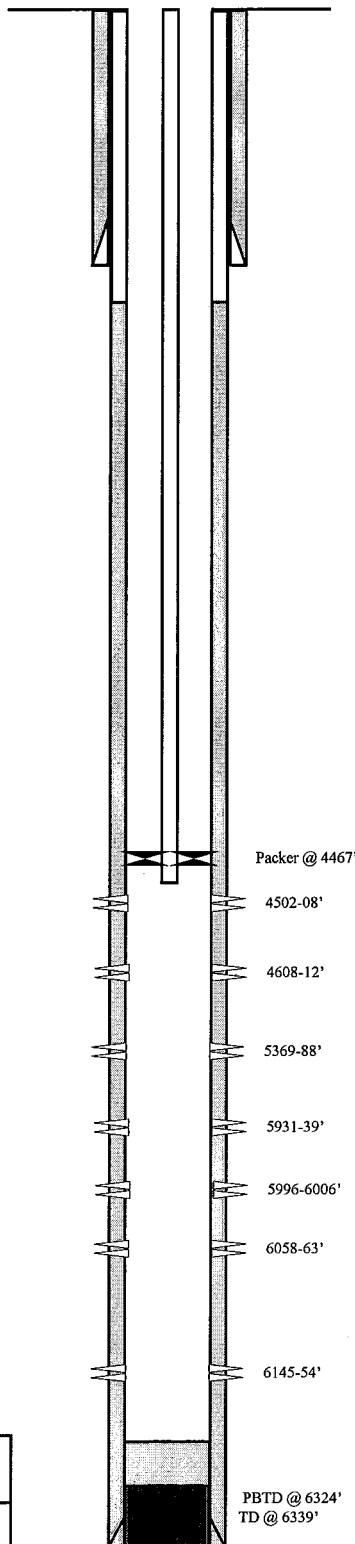
PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 150 jts. (6329.05' KB)
DEPTH LANDED: 6324' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
CEMENT TOP AT: 410' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 195 jts (6106')
TUBING ANCHOR: 6116'
NO. OF JOINTS: 2 jts (63')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 6182' KB
NO. OF JOINTS: 1 jt (31')
TOTAL STRING LENGTH: EOT @ 6215'

Proposed Injector Wellbore Diagram



FRAC JOB

7/16/01	5931'-6154'	Frac CP sand as follows: 135,800# 20/40 sand in 822 bbls Viking I-25 fluid. Treated @ avg press of 1425 psi w/avg rate of 35.5 BPM. ISIP 1700 psi. Flowed for 6 hrs. then died.
7/17/01	5369'-5388'	Frac B-0.5 sand as follows: 106,720# 20/40 sand in 759 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 30 BPM. ISIP 1910 psi. Flowed for 5 hrs. then died.
7/18/01	4502'-4612'	Frac GB sand as follows: 48,660# 20/40 sand in 391 bbls Viking I-25 fluid. Treated @ avg press of 190 psi w/avg rate of 29.8 BPM. ISIP 2100 psi. Flowed for 4 hrs. then died.

PERFORATION RECORD

7/14/01	6145'-6154'	4 JSPF	36 holes
7/14/01	6058'-6063'	4 JSPF	20 holes
7/14/01	5996'-6006'	4 JSPF	40 holes
7/14/01	5931'-5939'	4 JSPF	32 holes
7/17/01	5369'-5388'	4 JSPF	76 holes
7/18/01	4608'-4612'	4 JSPF	16 holes
7/18/01	4502'-4508'	4 JSPF	24 holes



Inland Resources Inc.

Greater Boundary Unit #1-27-8-17

733' FNL & 726' FEL

NENE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32228; Lease #UTU-76241

MC 2/14/03

WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,
STORAGE AND ENHANCED RECOVERY WELLS
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 310' GL, and 5-1/2" 15.5# J-55 casing run from surface to 6324' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1**

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
2. **A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

2.1 The name and address of the operator of the project.

Inland Production Company
410 17th Street, Suite 700
Denver, Colorado 80202

2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.

See Attachment A.

2.3 A full description of the particular operation for approval is requested.

Approval is requested to convert the Greater Boundary Unit #1-27-8-17 from a producing oil well to a water injection well in Monument Butte (Green River) Field, Greater Boundary Unit.

2.4 A description of the pools from which the identified wells are producing or have produced.

The proposed injection well will inject into the Green River Formation.

2.5 The names, description and depth of the pool or pools to be affected.

The injection zone is in the Green River Formation. In the Greater Boundary Unit #1-27-8-17 well, the proposed injection zone is from Garden Gulch to Basal Limestone (4388' - 6311'). We may add additional perfs to those already existing; any additional perfs will be detailed in a Sundry Notice at that time. The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 4388' and the Castle Peak top at 5889'.

2.6 A copy of a log of a representative well completed in the pool.

The referenced log for the Greater Boundary Unit #1-27-8-17 is on file with the Utah Division of Oil, Gas and Mining.

INLAND PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
GREATER BOUNDARY UNIT #1-27-8-17
MONUMENT BUTTE FIELD (GREEN RIVER) FIELD
GREATER BOUNDARY UNIT
LEASE #UTU-76241
FEBRUARY 24, 2003

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ATTACHMENT G	FRACTURE GRADIENT CALCULATIONS
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ATTACHMENT H	WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON
ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-76241) in the Monument Butte (Green River) Field, Greater Boundary Unit, and this request is for administrative approval.

The proposed average and maximum injection pressures.

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1687 psig.

- 2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Greater Boundary Unit #1-27-8-17, for existing perforations (4502' - 6154') calculates at 0.72 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1687 psig. At the time of conversion, we may add additional perforations between 4388' and 6311', and will detail the work performed in a Sundry Notice. See Attachments G and G-1.

- 2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Greater Boundary Unit #1-27-8-17, the proposed injection zone (4388' - 6311') is in the Garden Gulch to Basal limestone members of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-7.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

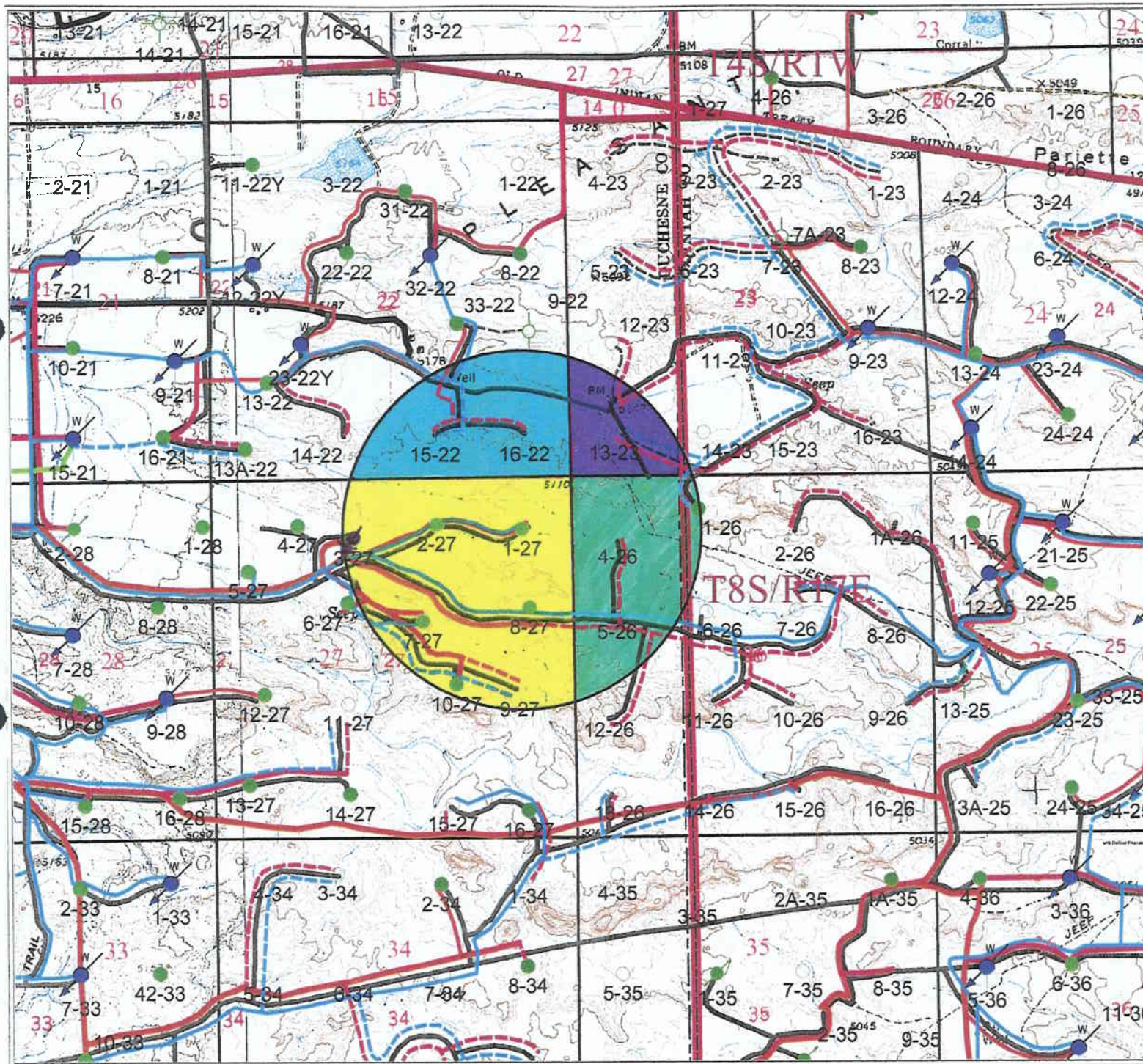
- 2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

- 2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Inland Production Company will supply any requested information to the Board or Division.

Attachment A



Well Status

- POW
- ☼ PGW
- W WW
- LOC
- ☼ DRY
- PA
- SI
- W WSW
- WOC

- Water Source 6"
- Water Source 4"
- Water 4" High Pressure
- Water HP 2" to 3"
- Proposed High Pressure Water
- Water 3" High Pressure
- Water Return
- Petroglyph
- Questar
- Johnson Water
- Mining Tract

Gathering Lines

- 2"
- 3"
- 4"
- 6"
- 8"
- 10"
- Proposed
- Paved
- Dirt
- Proposed
- Two Track
- Private

GB Federal 1-27-8-17
Sec 27, T8S-R17E



418 17th Street, Suite 700
Denver, Colorado 80202
Phone: (303) 893 0102

½ Mile Radius Map

UINTA BASIN, UTAH
Duchesne & Utah Counties, Utah

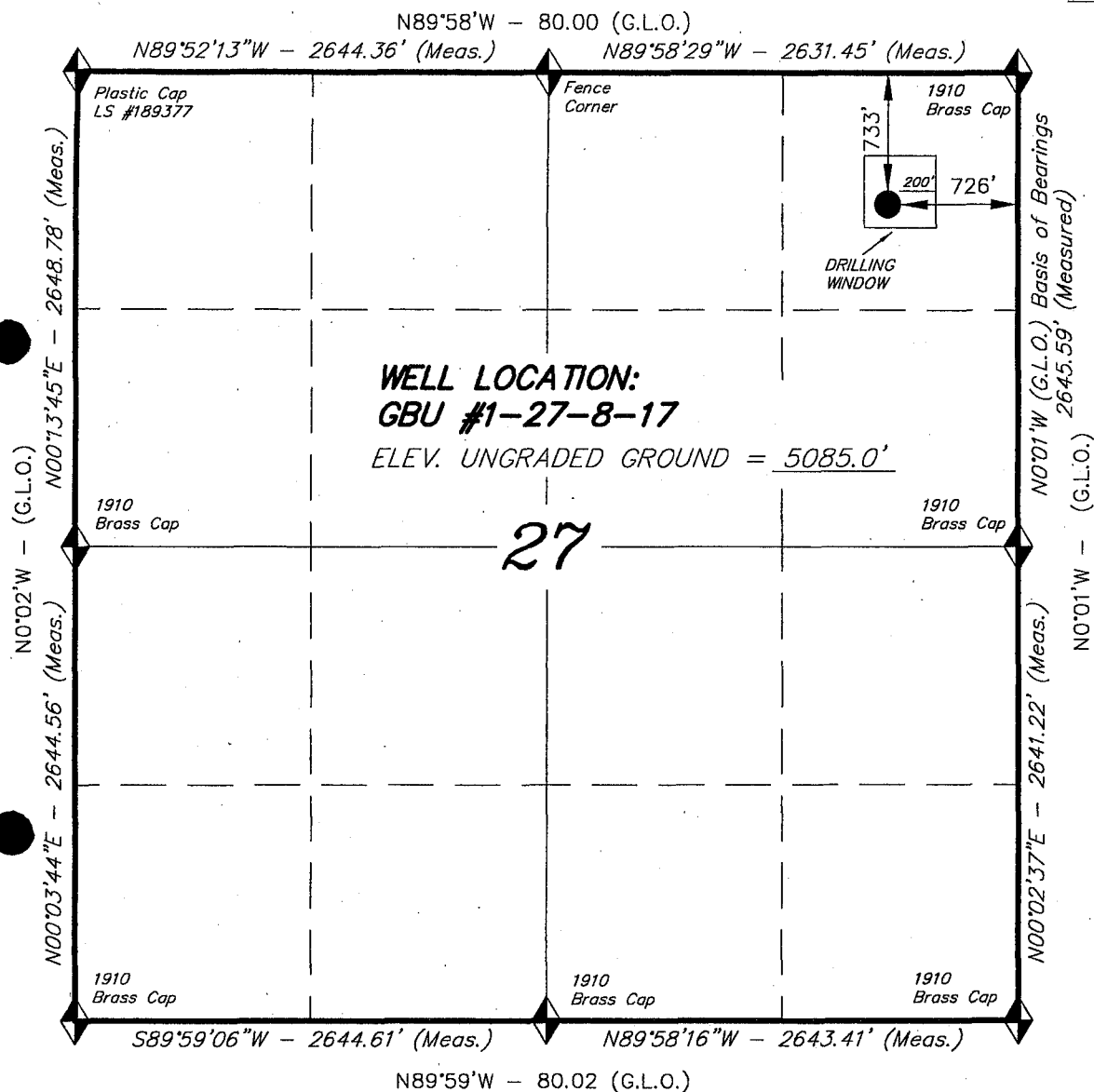
February 6, 2003

D. C. Chapla

T8S, R17E, S.L.B.&M.

INLAND PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY
UNIT #1-27-8-17, LOCATED AS SHOWN
IN THE NE 1/4 NE 1/4 OF SECTION 27,
T8S, R17E, S.L.B.&M. DUCHESNE COUNTY,
UTAH.



 = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS
MADE BY ME OR UNDER MY SUPERVISION AND THAT
THE SAME ARE TRUE AND CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF.

STACY W.
STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078
(435) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: C.D.S: R.J.

DATE: 1-4-01

WEATHER: COLD

NOTES:

FILE #

EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expiration	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 26: S2SW, SWSE Section 27: All Section 28: All Section 33: N2NE Section 34: N2, N2SE	UTU-76241 HBP	Inland Production Company	Joseph & Carol Shields
2	<u>Township 8 South, Range 17 East</u> Section 26: W2NE, NW, N2SW, NWSE	UTU-76240 HBP	Inland Production Company	USA
3	<u>Township 8 South, Range 17 East</u> Section 22: NE, E2NW, S2	UTU-77233 HBP	Inland Production Company	Brad & JoAnn Nelson Lee & Louise Nelson
4	<u>Township 8 South, Range 17 East</u> Section 23: Lots 2-4, SWNE, S2NW, SW, W2SE	UTU-76239 HBP	Inland Production Company	USA

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well
Greater Boundary Unit #1-27-8-17

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: David Gerbig
Inland Production Company
David Gerbig
Operations Engineer

Sworn to and subscribed before me this 3rd day of March, 2003.

Notary Public in and for the State of Colorado: Leake Duke

My Commission Expires: Aug 29, 2005

Greater Boundary Unit #1-27-8-17

Spud Date: 5/10/2001
 Put on Production: 7/23/2001
 GL: 5083' KB: 5093'

Initial Production: 77.5 BOPD,
 47.4 MCFD, 28.5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (302")
 DEPTH LANDED: 310'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts. (6329.05' KB)
 DEPTH LANDED: 6324' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: 410' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 195 jts (6106')
 TUBING ANCHOR: 6116'
 NO. OF JOINTS: 2 jts (63')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 6182' KB
 NO. OF JOINTS: 1 jt (31')
 TOTAL STRING LENGTH: EOT @ 6215'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 142-3/4" slick,
 90-3/4" scraper rods, 1-4", 1-6" x 3/4" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC
 STROKE LENGTH: 86"
 PUMP SPEED, SPM: 5.5
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

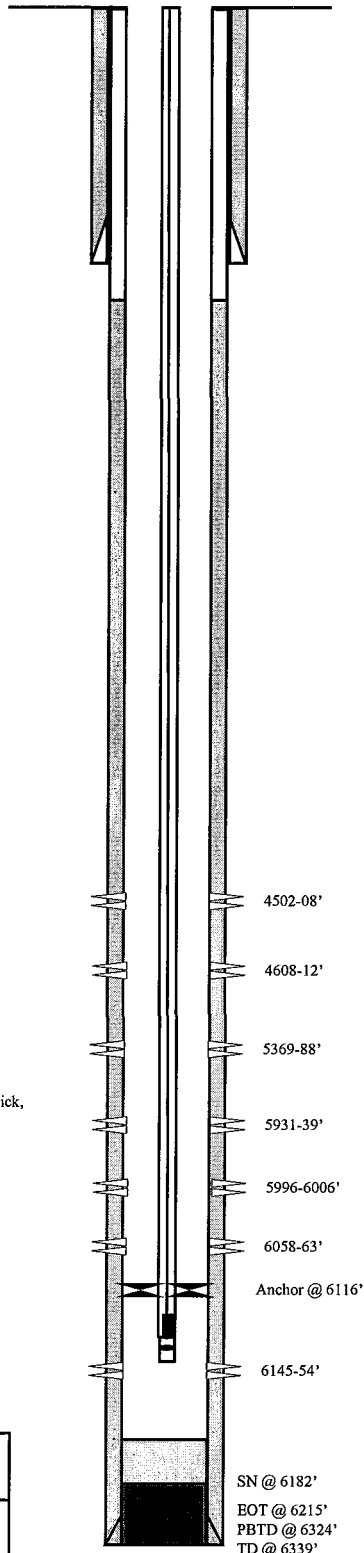
7/16/01 5931'-6154' **Frac CP sand as follows:**
 135,800# 20/40 sand in 822 bbls Viking
 I-25 fluid. Treated @ avg press of 1425
 psi w/avg rate of 35.5 BPM. ISIP 1700
 psi. Flowed for 6 hrs. then died.

7/17/01 5369'-5388' **Frac B-0.5 sand as follows:**
 106,720# 20/40 sand in 759 bbls Viking
 I-25 fluid. Treated @ avg press of 1600
 psi w/avg rate of 30 BPM. ISIP 1910
 psi. Flowed for 5 hrs. then died.

7/18/01 4502'-4612' **Frac GB sand as follows:**
 48,660# 20/40 sand in 391 bbls Viking
 I-25 fluid. Treated @ avg press of 190
 psi w/avg rate of 29.8 BPM. ISIP 2100
 psi. Flowed for 4 hrs. then died.

PERFORATION RECORD

7/14/01	6145'-6154'	4 JSPF	36 holes
7/14/01	6058'-6063'	4 JSPF	20 holes
7/14/01	5996'-6006'	4 JSPF	40 holes
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7/18/01	4608'-4612'	4 JSPF	16 holes
7/18/01	4502'-4508'	4 JSPF	24 holes



Inland Resources Inc.

Greater Boundary Unit #1-27-8-17

733' FNL & 726' FEL

NENE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32228; Lease #UTU-76241

BDH 8/22/01

Federal #1-26-8-17

Spud Date: 4/16/91
Put on Production: 6/13/91
GL: 5129' KB: 5142'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (289')
DEPTH LANDED: 302' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 220 sxs Class G

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15#
LENGTH: 172 jts. (7106')
DEPTH LANDED: 7119' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 500 sxs Super G; tailed w/400 sx Class 'G'
CEMENT TOP AT: 1130' KB

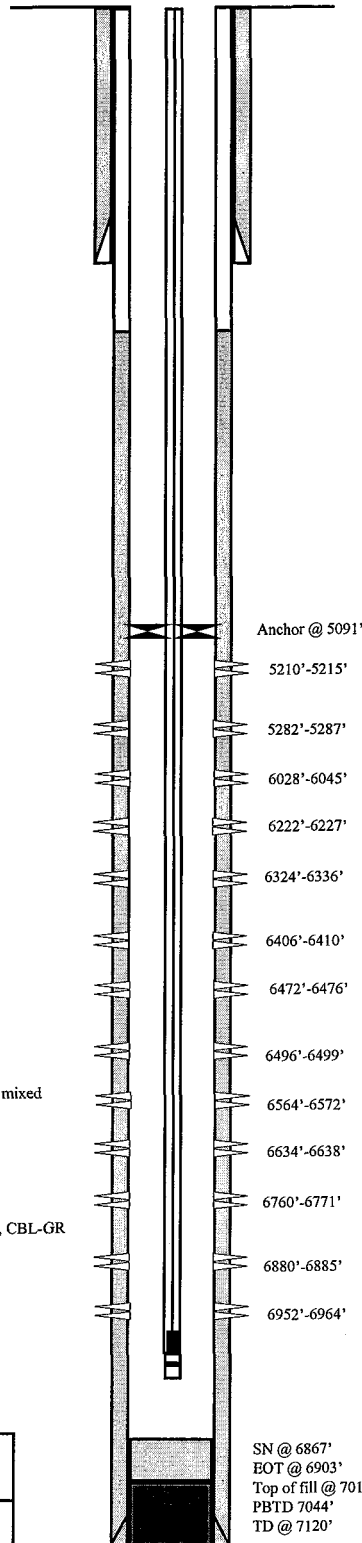
TUBING

SIZE/GRADE/WT.: 2-7/8"/J-55/6.#.
NO. OF JOINTS: 164 jts. (5077.46')
TUBING ANCHOR: 5091.46' KB
NO. OF JOINTS: 57 jts. (1774.84')
SEATING NIPPLE: 2-7/8" (1.10')
SEAT NIPPLE LANDED: 6867.40' KB
NO. OF JOINTS: 1 jt. Perf sub. (3.00')
NO. OF JOINTS: 1 jt. (31.00')
TOTAL STRING LENGTH: EOT @ 6903.92'

SUCKER RODS

POLISHED ROD: 1-1/4" x 22' polished rod.
SUCKER RODS: 2 1-1/2" weight rods, 165-3/4" plain rods, 107-7/8" mixed rods, 2-4' pony rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 16" RHAC pump
STROKE LENGTH: 86"
PUMP SPEED, SPM: 4 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Wellbore Diagram



Initial Production: 102 STBOPD,
96 STBWP

FRAC JOB

6-4-91	5210'-5215'	Acid breakdown. Frac w/9900# 20/40 sand; screened out.
5-31-91	5282'-5287'	Acid breakdown. Frac w/6900# 20/40 sand. Screened out.
5-29-91	6028'-6045'	Acid breakdown. Frac w/25,400# 20/40 sand, 9700# 16/30 sand. Screened out.
5-28-91	6222'-6227'	Acid breakdown.
5-23-91	6324'-6336'	Acid breakdown. Frac w/38,580# 20/40 sand and 16/30 sand. Avg rate 25.2 BPM, avg press 3534#.
5-23-91	6406'-6499'	Acid breakdown.
5-21-91	6564'-6572'	Acid breakdown. Frac down annulus w/39,000# 20/40 sand; tail in w/approx 1200# 16/30 before screen out. Avg rate 14.8 BPM, avg press 3800#. 697 total bbls fluid.
5-18-91	6564'-6572'	Attempted frac failed due to high friction - 3900# @ 5 BPM.
5-18-91	6634'-38'	Acid breakdown. No frac.
5-16-91	6760'-6771'	Acid breakdown. Frac w/48,800 lbs 20/40 and 16/30 sand @ avg rate of 25.6 BPM and avg press of 3700 psig.
5-14-91	6880'-6885'	Acid breakdown.
5-13-91	6952'-6964'	Acid breakdown.
6/17/02		Pump change. Update rod and tubing details

PERFORATION RECORD

6-04-91	5210'-5215'	4 JSPF
5-31-91	5282'-5287'	4 JSPF
5-29-91	6028'-6045'	4 JSPF
5-28-91	6222'-6227'	4 JSPF
5-23-91	6324'-6336'	4 JSPF
5-23-91	6406'-6410'	4 JSPF
5-23-91	6472'-6476'	4 JSPF
5-23-91	6496'-6499'	4 JSPF
5-18-91	6564'-6572'	4 JSPF
5-18-91	6634'-6638'	4 JSPF
5-16-91	6760'-6771'	4 JSPF
5-14-91	6880'-6885'	4 JSPF
5-13-91	6952'-6964'	4 JSPF



Inland Resources Inc.

Federal #1-26-8-17

461 FNL & 1880 FWL

NENW Section 26-T8S-R17E

Uintah Co, Utah

API #43-047-31953; Lease #UTU-76240

Greater Boundary Unit #2-27-8-17

Spud Date: 6/04/2001
Put on Production: 7/31/2001
GL: 5118' KB: 5128'

Initial Production: 141 BOPD,
97 MCFD, 26.5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (307.66')
DEPTH LANDED: 307.66'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt, est 4 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts. (6298')
DEPTH LANDED: 6298'
HOLE SIZE: 7-7/8"
CEMENT DATA: 515 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 188 jts (6019.73')
TUBING ANCHOR: 6029.73'
NO. OF JOINTS: 3 jts (6124')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 6127.71' KB
NO. OF JOINTS: 1 jt (6158')
TOTAL STRING LENGTH: EOT @ 6160.64'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 140-3/4" slick,
90-3/4" scraper rods, 1-2', 1-4', 1-8' x 3/4" pony rods
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC
STROKE LENGTH: 73"
PUMP SPEED, SPM: 5 SPM
LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/24/01 5944'-6162' **Frac CP sand as follows:**
154,000# 20/40 sand in 930 bbls Viking I-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 35.3 BPM. ISIP 2050 psi. Flowed for 7.5 hrs then died.

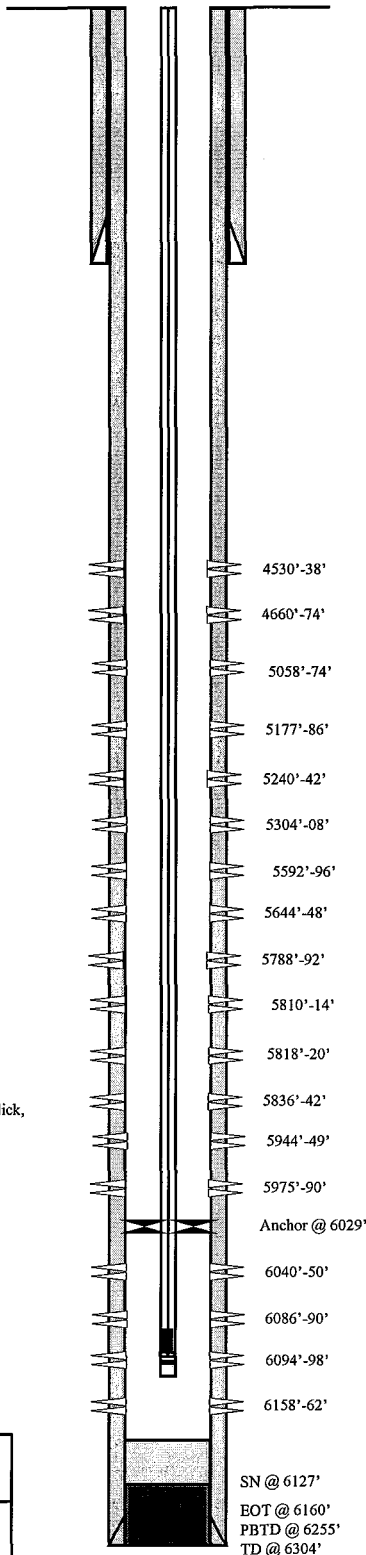
7/25/01 5592'-5842' **Frac A/LODC sands as follows:**
98,000# 20/40 sand in 706 bbls Viking I-25 fluid. Treated @ avg press of 1930 psi w/avg rate of 30.9 BPM. ISIP 1950 psi. Flowed for 4.5 hrs then died.

7/26/01 5058'-5308 **Frac C/D sands as follows:**
132,000# 20/40 sand in 888 bbls Viking I-25 fluid. Treated @ avg press of 1470 psi w/avg rate of 31 BPM. ISIP 1510 psi. Flowed for 6 hrs then died.

7/27/01 4530'-4674' **Frac GB sands as follows:**
104,160# 20/40 sand in 710 bbls Viking I-25 fluid. Treated @ avg press of 2450 psi w/avg rate of 30.9 BPM. ISIP 1960 psi. Flowed for 5.75 hrs then died.

PERFORATION RECORD

7/23/01	6158'-6162'	4 JSPF	16 holes
7/23/01	6094'-6098'	4 JSPF	16 holes
7/23/01	6086'-6090'	4 JSPF	16 holes
7/23/01	6040'-6050'	4 JSPF	40 holes
7/23/01	5975'-5990'	4 JSPF	60 holes
7/23/01	5944'-5949'	4 JSPF	20 holes
7/25/01	5836'-5842'	4 JSPF	24 holes
7/25/01	5818'-5820'	4 JSPF	08 holes
7/25/01	5810'-5814'	4 JSPF	16 holes
7/25/01	5788'-5792'	4 JSPF	16 holes
7/25/01	5644'-5648'	4 JSPF	16 holes
7/25/01	5592'-5596'	4 JSPF	16 holes
7/26/01	5304'-5308'	4 JSPF	16 holes
7/26/01	5240'-5242'	4 JSPF	08 holes
7/26/01	5177'-5186'	4 JSPF	36 holes
7/26/01	5058'-5074'	4 JSPF	64 holes
7/27/01	4660'-4674'	4 JSPF	56 holes
7/27/01	4530'-4538'	4 JSPF	32 holes



Inland Resources Inc.

Greater Boundary Unit #20-27-8-17

660' FNL & 1980' FEL

NWSE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32229; Lease #UTU-76241

BDH 8/2/01

Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001
Put on Production: 7/23/2001
GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,
15.1 MCFD, 95.4 BWPD

SURFACE CASING

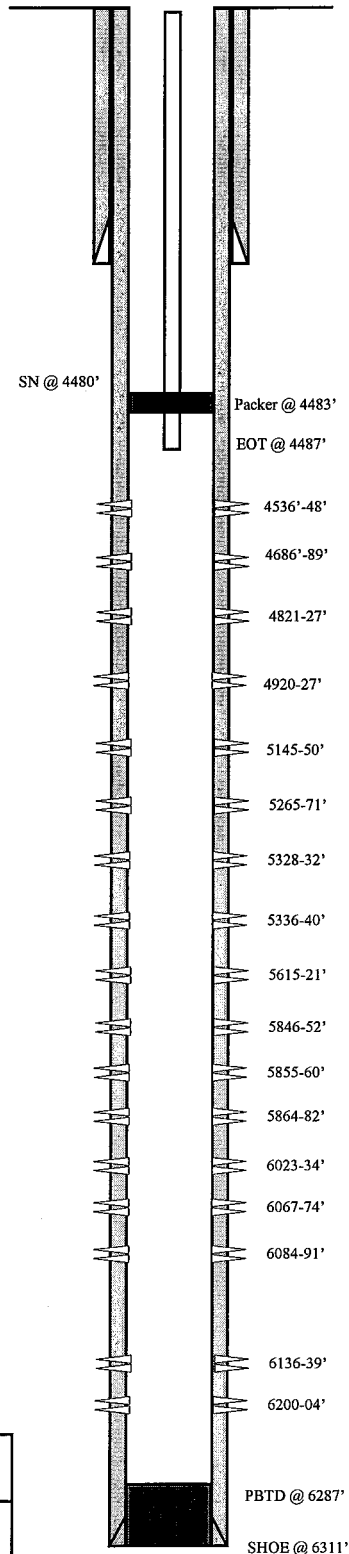
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 8 jts. (302')
DEPTH LANDED: 301'
HOLE SIZE: 12-1/4"
CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 150 jts.
DEPTH LANDED: 6299' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 138 jts (4478.70')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4479.80'
PACKER: 4483.01'
TOTAL STRING LENGTH: BOT @ 4487.11'

Injector Wellbore
DiagramFRAC JOB

7/16/01	6023'-6204'	Frac CP sand as follows: 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.
7/17/01	5846'-5882'	Frac LODC sand as follows: 120,222# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.
7/18/01	5265'-5621'	Frac A,C,D, sands as follows: 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.
7/19/01	5145'-5150'	Frac D-1 sand as follows: 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.
7/19/01	4821'-4927'	Frac PB sand as follows: 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.
10/05/01		Isolate PB-8 zone.
10/15/01		Move packer. Update rod and tubing details.
01/15/03		Converted to Injector

PERFORATION RECORD

7/14/01	6200'-6204'	4 JSPF	16 holes
7/14/01	6136'-6139'	4 JSPF	12 holes
7/14/01	6084'-6091'	4 JSPF	28 holes
7/14/01	6067'-6074'	4 JSPF	36 holes
7/14/01	6023'-6034'	4 JSPF	44 holes
7/17/01	5864'-5882'	4 JSPF	72 holes
7/17/01	5855'-5860'	4 JSPF	20 holes
7/17/01	5846'-5852'	4 JSPF	24 holes
7/18/01	5615'-5621'	4 JSPF	24 holes
7/18/01	5336'-5340'	4 JSPF	16 holes
7/18/01	5328'-5332'	4 JSPF	16 holes
7/18/01	5265'-5271'	4 JSPF	24 holes
7/19/01	5145'-5150'	4 JSPF	20 holes
7/19/01	4920'-4927'	4 JSPF	28 holes
7/19/01	4821'-4827'	4 JSPF	24 holes
1/13/03	4536'-4548'	4 JSPF	48 holes
1/13/03	4686'-4689'	4 JSPF	12 holes



Inland Resources Inc.

Greater Boundary Unit #3-27-8-17

857' FNL & 2096' FWL

NENW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32224; Lease #UTU-76241

Greater Boundary Unit #6-27-8-17

Spud Date: 4/20/2001
Put on Production: 6/18/2001
GL: 5167' KB: 5177'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (300.05')
DEPTH LANDED: 309.05'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 144 jts. (6219.33')
DEPTH LANDED: 6213.43'
HOLE SIZE: 7-7/8"
CEMENT DATA: 435 sk Prem. Lite II mixed & 450 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

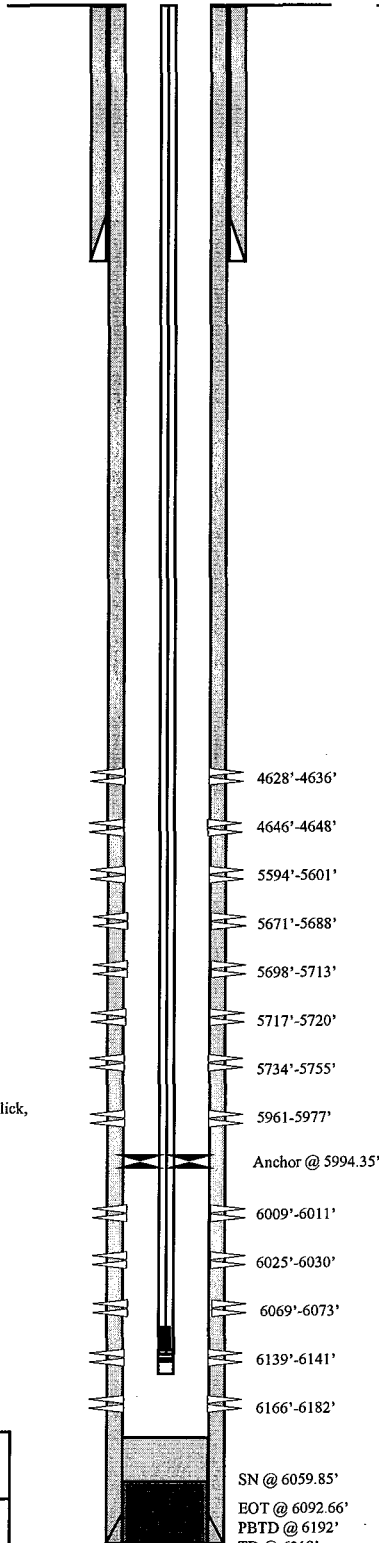
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 190 jts (5984.35')
TUBING ANCHOR: 5994.35'
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 6059.85' KB
TOTAL STRING LENGTH: EOT @ 6092.66'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 137-3/4" slick,
90-3/4" scraper rods, 1-2', 1-4', 1-6', 1-8"x3/4" pony rods
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC
STROKE LENGTH: 73"
PUMP SPEED, SPM: 5.5 SPM
LOGS: DIGL/SP/GR/CAL

Wellbore Diagram



Initial Production: 66 BOPD, 35
MCFD, 15.5 BWPD

FRAC JOB

6/12/01 5961'-6182' **Frac CP sands as follows:**
179,206# 20/40 sand in 1056 bbls Viking
I-25 fluid. Treated @ avg press of 1018
psi w/avg rate of 29.8 BPM. ISIP 1820
psi. Flowed 11 hours and died.

6/13/01 5594'-5755' **Frac A/LODC sands as follows:**
316,254# 20/40 sand in 1977 bbls Viking
I-25 fluid. Treated @ avg press of 1920
psi w/avg rate of 31.8 BPM. ISIP 2080
psi. Flowed 14 hours and died.

6/14/01 4628'-4648' **Frac GB-6 sands as follows:**
46,920# 20/40 sand in 387 bbls Viking
I-25 fluid. Treated @ avg press of 1650
psi w/avg rate of 26.9 BPM. ISIP 2000
psi. Flowed 3 hours and died.

PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
6/11/01	5961'-5977'	4 JSPF	64 holes
6/11/01	6009'-6011'	4 JSPF	8 holes
6/11/01	6025'-6030'	4 JSPF	20 holes
6/11/01	6069'-6073'	4 JSPF	16 holes
6/11/01	6139'-6141'	4 JSPF	8 holes
6/11/01	6166'-6182'	4 JSPF	64 holes
6/13/01	5594'-5601'	4 JSPF	28 holes
6/13/01	5671'-5688'	4 JSPF	68 holes
6/13/01	5717'-5720'	4 JSPF	60 holes
6/13/01	5698'-5713'	4 JSPF	12 holes
6/13/01	5734'-5755'	4 JSPF	84 holes
6/14/01	4628'-4636'	4 JSPF	32 holes
6/14/01	4646'-4648'	4 JSPF	8 holes



Inland Resources Inc.

Greater Boundary Unit #6-27-8-17

1804' FNL & 1996' FWL

SENW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32231; Lease #UTU-76241

BDH 7/13/01

Greater Boundary Unit #7-27-8-17

Spud Date: 4/25/01
Put on Production: 7/13/01
GL: 5146' KB: 5156'

Initial Production: 117.9 BOPD,
174.6 MCFD, 26.3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (298.66')
DEPTH LANDED: 307.66'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt, est 4 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 145 jts. (6273.53')
DEPTH LANDED: 6269.13'
HOLE SIZE: 7-7/8"
CEMENT DATA: 390 sk Prem. Lite II mixed & 575 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 186 jts (6041.40')
TUBING ANCHOR: 6051.40' KB
NO. OF JOINTS: 2jts (64.98')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 6119.18' KB
NO. OF JOINTS: 1jt (32.49')
TOTAL STRING LENGTH: EOT @ 6153.22' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraper rods; 140-3/4" slick,
89-3/4" scraper rods, 1-2', 1-6', 1-8' pony rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC
STROKE LENGTH: 64"
PUMP SPEED, SPM: 6 SPM
LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/3/01 5931'-6174' **Frac CP sand as follows:**
213,203# 20/40 sand in 1297 bbls Viking
I-25 fluid. Treated @ avg press of 1670
psi w/avg rate of 32.4 BPM. ISIP 2060
psi. Flowed 10.5 hrs then died. NOTE:
Fraced with radioactively tagged sands.

7/5/01 5710'-5824' **Frac LODC sand as follows:**
471,789# 20/40 sand in 2777 bbls Viking
I-25 fluid. Treated @ avg press of 2430
psi w/avg rate of 29.7 BPM. ISIP 2680
psi. Flowed 12.5 hrs then died. NOTE:
Fraced with radioactively tagged sands.

7/6/01 5510'-5625' **Frac A sand as follows:**
154,860# 20/40 sand in 905 bbls Viking
I-25 fluid. Treated @ avg press of 2435
psi w/avg rate of 30.5 BPM. ISIP 2140
psi. Flowed 10.5 hrs then died.

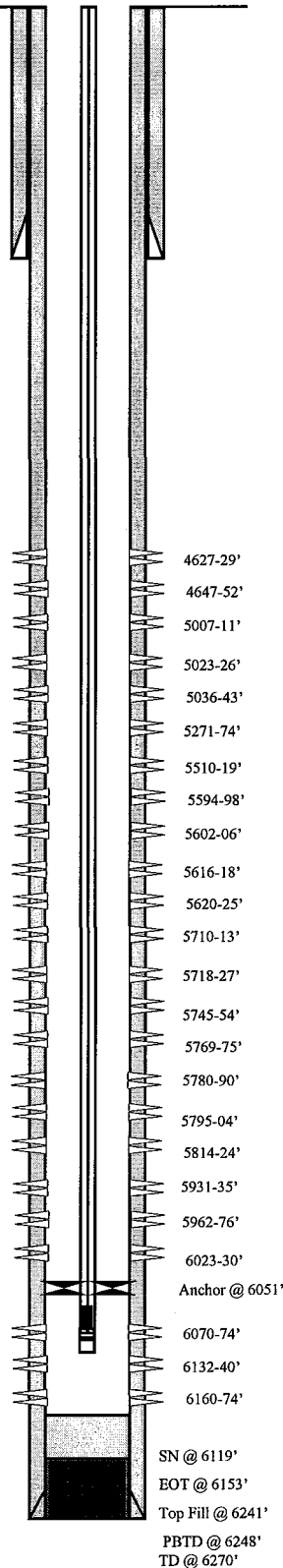
7/9/01 5007'-5274' **Frac C & D sand as follows:**
75,190# 20/40 sand in 571 bbls Viking
I-25 fluid. Treated @ avg press of 1850
psi w/avg rate of 31.5 BPM. ISIP 2230
psi. Flowed 6 hrs then died.

7/10/01 4627'-4652' **Frac GB sand as follows:**
33,180# 20/40 sand in 304 bbls Viking
I-25 fluid. Treated @ avg press of 1900
psi w/avg rate of 24 BPM. ISIP 1900
psi. Flowed 3.5 hrs then died.

10/4/01 Pimp change. Update Rod and tubing details.

PERFORATION RECORD

7/2/01	6160'-6174'	3 JSFP	42 holes
7/2/01	6132'-6140'	3 JSFP	24 holes
7/2/01	6070'-6074'	3 JSFP	12 holes
7/2/01	6023'-6030'	3 JSFP	21 holes
7/2/01	5962'-5976'	3 JSFP	42 holes
7/2/01	5931'-5935'	3 JSFP	12 holes
7/5/01	5814'-5824'	3 JSFP	30 holes
7/5/01	5795'-5804'	3 JSFP	27 holes
7/5/01	5780'-5790'	3 JSFP	30 holes
7/5/01	5769'-5775'	3 JSFP	18 holes
7/5/01	5745'-5754'	3 JSFP	27 holes
7/5/01	5718'-5727'	3 JSFP	27 holes
7/5/01	5710'-5713'	3 JSFP	9 holes
7/6/01	5620'-5625'	4 JSFP	20 holes
7/6/01	5616'-5618'	4 JSFP	8 holes
7/6/01	5602'-5606'	4 JSFP	16 holes
7/6/01	5594'-5598'	4 JSFP	16 holes
7/6/01	5510'-5519'	4 JSFP	36 holes
7/9/01	5271'-5274'	4 JSFP	12 holes
7/9/01	5036'-5043'	4 JSFP	28 holes
7/9/01	5023'-5026'	4 JSFP	12 holes
7/9/01	5007'-5011'	4 JSFP	16 holes
7/10/01	4647'-4652'	4 JSFP	20 holes
7/10/01	4627'-4629'	4 JSFP	8 holes



Inland Resources Inc.

Greater Boundary Unit #7-27-8-17

2085' FNL & 2203' FEL
SWNE Section 27-T8S-R17E
Duchesne Co, Utah

API #43-013-32232; Lease #UTU-76241

Greater Boundary Unit #8-27-8-17

Spud Date: 7/03/01
Put on Production: 8/15/01
GL: 5083' KB: 5093'

Initial Production: 211 BOPD,
102 MCFD, 26 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (295.22')
DEPTH LANDED: 304.22'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt, est 5 bbls cmt to surface

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 150 jts. J-55 (6298.43')
DEPTH LANDED: 6294.03'
HOLE SIZE: 7-7/8"
CEMENT DATA: 375 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 186 jts (6062.31')
TUBING ANCHOR: 6072.31' KB
NO. OF JOINTS: 2jts (65.06')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 6140.17' KB
NO. OF JOINTS: 1jt (32.60')
TOTAL STRING LENGTH: EOT @ 6174.32' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 140-3/4" slick,
90-3/4" scraper rods, 1-2", 1-4", 2-6", 1-8" x 3/4" pony rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 15.5' RHAC
STROKE LENGTH: 84"
PUMP SPEED, SPM: 6 SPM
LOGS: DIGL/SP/GR/CAL

FRAC JOB

8/2/01 5893'-6130' **Frac CP sand as follows:**
192,780# 20/40 sand in 1124 bbls Viking
1-25 fluid. Treated @ avg press of 1700
psi w/avg rate of 36.1 BPM. ISIP 1955
psi. Flowed 7.5 hrs then died.

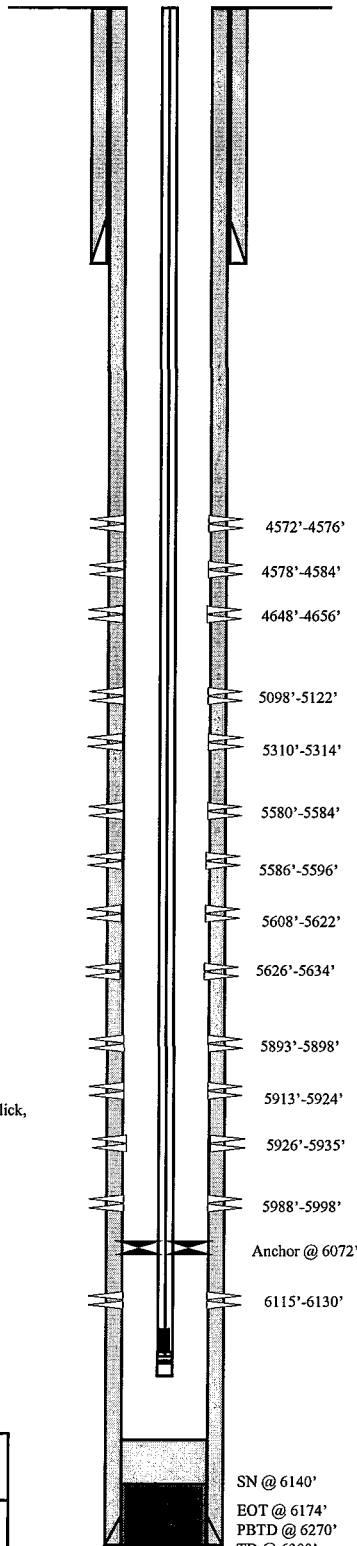
8/6/01 5580'-5634' **Frac A-3 sand as follows:**
177,320# 20/40 sand in 1171 bbls Viking
1-25 fluid. Treated @ avg press of 2200
psi w/avg rate of 29.8 BPM. ISIP 1940
psi. Flowed 7 hrs then died.

8/7/01 5098'-5314' **Frac B/D sands as follows:**
128,340# 20/40 sand in 890 bbls Viking
1-25 fluid. Treated @ avg press of 1300
psi w/avg rate of 30 BPM. ISIP 1600
psi. Flowed 6.5 hrs then died.

8/9/01 4572'-4656' **Frac GB/PB sands as follows:**
63,940# 20/40 sand in 536 bbls Viking
1-25 fluid. Treated @ avg press of 2080
psi w/avg rate of 30 BPM. ISIP 2050
psi. Flowed 6 hrs then died.

PERFORATION RECORD

8/1/01	6115'-6130'	4 JSPF	56 holes
8/1/01	5988'-5998'	4 JSPF	40 holes
8/1/01	5926'-5935'	4 JSPF	36 holes
8/1/01	5913'-5924'	4 JSPF	40 holes
8/1/01	5893'-5898'	4 JSPF	20 holes
8/3/01	5626'-5634'	4 JSPF	32 holes
8/3/01	5608'-5622'	4 JSPF	56 holes
8/3/01	5586'-5596'	4 JSPF	40 holes
8/3/01	5580'-5584'	4 JSPF	16 holes
8/7/01	5310'-5314'	4 JSPF	16 holes
8/7/01	5098'-5122'	4 JSPF	96 holes
8/8/01	4648'-4656'	4 JSPF	32 holes
8/8/01	4578'-4584'	4 JSPF	24 holes
8/8/01	4572'-4576'	4 JSPF	16 holes



Inland Resources Inc.

Greater Boundary Unit #8-27-8-17

1889' FNL & 624' FEL

SENE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32233; Lease #UTU-76241

BDH 8/20/01

Greater Boundary Unit #10-27-8-17

Spud Date: 6/25/2001
Put on Production: 8/1/2001

GL: 5134' KB: 5124'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (295.55')
DEPTH LANDED: 304.55' KB
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 150 jts. (6365.86')
DEPTH LANDED: 6361.46' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 525 sxs Prem. Lite II mixed & 525 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

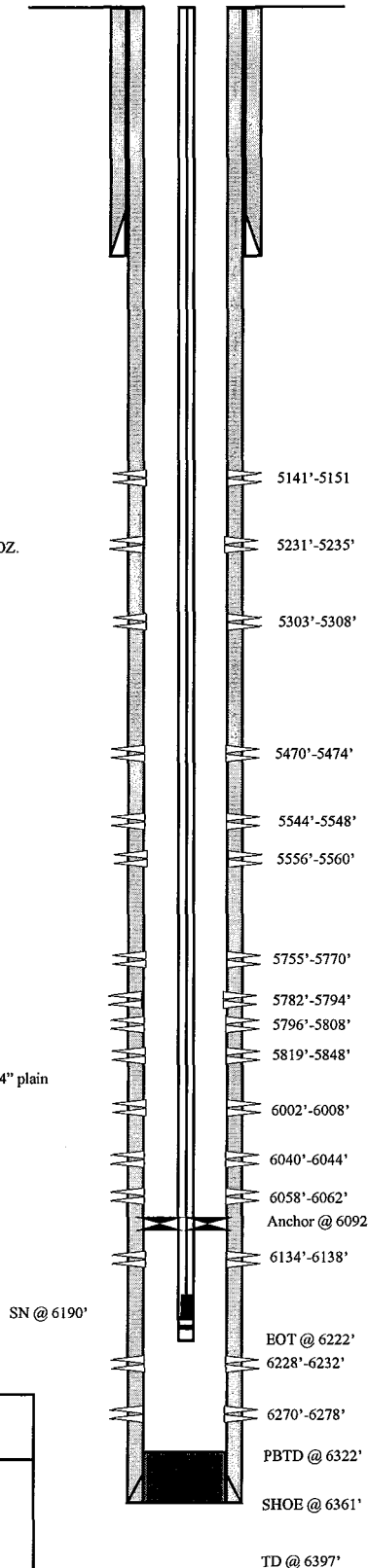
TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 195 jts (6082.43')
TUBING ANCHOR: 6092.43' KB
NO. OF JOINTS: 3 jts (6186.82')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 6189.62' KB
NO. OF JOINTS: 1 jt (6221.12')
TOTAL STRING LENGTH: BOT @ 6222.67' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 6 1-1/2" weight bars; 13-3/4" scraped rods; 130-3/4" plain rods, 98-3/4" scraped rods.
PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 13' x 15' RHAC
STROKE LENGTH: 68"
PUMP SPEED, SPM: 4 SPM
LOGS: DIGL/SP/GR/CAL

Wellbore Diagram

FRAC JOB

7/24/01 6002'-6278' **Frac CP sand as follows:**
120,550# 20/40 sand in 767 bbls Viking I-25 fluid. Treated @ avg press of 1860 psi w/avg rate of 36.7 BPM. ISIP 2000 psi. Calc flush: 5002 gal. Actual flush: 5922 gal.

7/25/01 5755'-5848' **Frac LODC sand as follows:**
339,550# 20/40 sand in 2068 bbls Viking I-25 fluid. Treated @ avg press of 2280 psi w/avg rate of 33.7 BPM. ISIP 2540 psi. Calc flush: 5755 gal. Actual flush: 5670 gal.

7/26/01 5470'-5560' **Frac A sands as follows:**
46,000# 20/40 sand in 420 bbls Viking I-25 fluid. Treated @ avg press of 2630 psi w/avg rate of 30.8 BPM. ISIP 2290 psi. Calc flush: 5470 gal. Actual flush: 5376 gal.

7/27/01 5141'-5308' **Frac C/D sands as follows:**
80,000# 20/40 sand in 582 bbls Viking I-25 fluid. Treated @ avg press of 1500 psi w/avg rate of 31.1 BPM. ISIP 1540 psi. Calc flush: 5141 gal. Actual flush: 5061 gal.

1/16/03 Parted rods. Update rod detail.

PERFORATION RECORD

7/23/01	6270'-6278'	4 JSPF	32 holes
7/23/01	6228'-6232'	4 JSPF	16 holes
7/23/01	6134'-6138'	4 JSPF	16 holes
7/23/01	6058'-6062'	4 JSPF	16 holes
7/23/01	6040'-6044'	4 JSPF	16 holes
7/23/01	6002'-6008'	4 JSPF	24 holes
7/25/01	5819'-5848'	4 JSPF	116 holes
7/25/01	5796'-5808'	4 JSPF	48 holes
7/25/01	5782'-5794'	4 JSPF	48 holes
7/25/01	5755'-5770'	4 JSPF	60 holes
7/26/01	5556'-5560'	4 JSPF	16 holes
7/26/01	5544'-5548'	4 JSPF	16 holes
7/26/01	5470'-5474'	4 JSPF	16 holes
7/27/01	5303'-5308'	4 JSPF	20 holes
7/27/01	5231'-5235'	4 JSPF	16 holes
7/27/01	5141'-5151'	4 JSPF	40 holes



Inland Resources Inc.

Greater Boundary Unit #10-27-8-17

2261' FSL & 1711' FEL

NWSE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32235; Lease #UTU-76241

Analytical Laboratory Report for:

Inland Production

BJ Unichem
Chemical Services

UNICHEM Representative: Rick Crosby

Production Water Analysis

Listed below please find water analysis report from: JWL, P/S #2

Lab Test No: 2002403193

Sample Date:

10/14/2002

Specific Gravity: 1.002

TDS: 554

pH: 7.50

Cations:	mg/L	as:
Calcium	64	(Ca ⁺⁺)
Magnesium	39	(Mg ⁺⁺)
Sodium	46	(Na ⁺)
Iron	0.20	(Fe ⁺⁺)
Manganese	0.00	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	244	(HCO ₃ ⁻)
Sulfate	90	(SO ₄ ⁻)
Chloride	71	(Cl ⁻)
Gases:		
Carbon Dioxide		(CO ₂)
Hydrogen Sulfide	0	(H ₂ S)

Analytical Laboratory Report for:
Inland Production



BJ Unichem
Chemical Services

UNICHEM Representative: Rick Crosby

Production Water Analysis

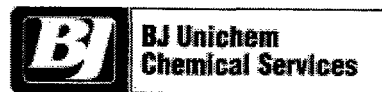
Listed below please find water analysis report from: GBU, 1-27-8-17

Lab Test No: 2003400390 Sample Date: 02/13/2003
Specific Gravity: 1.012
TDS: 16497
pH: 9.00

Cations:	mg/L	as:
Calcium	40.00	(Ca ⁺⁺)
Magnesium	24.00	(Mg ⁺⁺)
Sodium	6095	(Na ⁺)
Iron	8.00	(Fe ⁺⁺)
Manganese	0.20	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	1830	(HCO ₃ ⁻)
Sulfate	0	(SO ₄ ⁻)
Chloride	8500	(Cl ⁻)
Gases:		
Carbon Dioxide		(CO ₂)
Hydrogen Sulfide	0	(H ₂ S)

Inland Production

Lab Test No: 2003400390



**DownHole SAT™ Scale Prediction
@ 120 deg. F**

Mineral Scale	Saturation Index	Momentary Excess (lbs/1000 bbls)
Calcite (CaCO ₃)	37.17	21.98
Aragonite (CaCO ₃)	31.09	21.82
Witherite (BaCO ₃)	0	-1.17
Strontianite (SrCO ₃)	0	-.262
Magnesite (MgCO ₃)	25.79	17.33
Anhydrite (CaSO ₄)	0	-666.41
Gypsum (CaSO ₄ *2H ₂ O)	0	-760.31
Barite (BaSO ₄)	0	-6.18
Celestite (SrSO ₄)	0	-159.76
Silica (SiO ₂)	0	-71.51
Brucite (Mg(OH) ₂)	.0775	-1.87
Magnesium silicate	0	-119.76
Siderite (FeCO ₃)	84.09	.0188
Halite (NaCl)	< 0.001	-185807
Thenardite (Na ₂ SO ₄)	0	-54501
Iron sulfide (FeS)	0	-.018

Interpretation of DHSat Results:

The Saturation Index is calculated for each mineral species independently and is a measure of the degree of supersaturation (driving force for precipitation) under the conditions modeled. This value ranges from 0 to infinity with 1.0 representing a condition of equilibrium where scale will neither dissolve nor precipitate. Values less than 1.0 are undersaturated and values greater than 1.0 are supersaturated. The scale is logarithmic, i.e. a Saturation Index of 3 is 10 times more saturated than a value of 2.

The Momentary excess is a measure of how much scale would have to precipitate to bring the system back to a non-scaling condition. This value ranges from negative (dissolving) infinity to positive (precipitating) infinity. The Momentary Excess represents the amount of scale possible while the Saturation Level represents the probability that scale will form.

DownHole SAT(tm)
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) Johnson Water

2) GB 1-27-8-17

Report Date: 02-18-2003

SATURATION LEVEL

Calcite (CaCO ₃)	64.91
Aragonite (CaCO ₃)	54.29
Anhydrite (CaSO ₄)	0.00205
Gypsum (CaSO ₄ *2H ₂ O)	0.00199
Barite (BaSO ₄)	0.00
Hydroxyapatite	0.00
Iron hydroxide (Fe(OH) ₃)	17634
Siderite (FeCO ₃)	173.34
Iron sulfide (FeS)	0.00

MOMENTARY EXCESS (Lbs/1000 Barrels)

Calcite (CaCO ₃)	23.77
Aragonite (CaCO ₃)	23.67
Witherite (BaCO ₃)	-0.692
Strontianite (SrCO ₃)	-0.154
Anhydrite (CaSO ₄)	-534.12
Gypsum (CaSO ₄ *2H ₂ O)	-610.77
Barite (BaSO ₄)	-0.724
Hydroxyapatite	-301.72
Iron hydroxide (Fe(OH) ₃)	< 0.001
Siderite (FeCO ₃)	0.0238
Iron sulfide (FeS)	-0.0156

SIMPLE INDICES

Langelier	2.37
Stiff Davis Index	2.43

BOUND IONS

	TOTAL	FREE
Calcium	52.06	27.91
Barium	0.00	0.00
Carbonate	592.05	147.59
Phosphate	0.00	0.00
Sulfate	45.00	39.50

OPERATING CONDITIONS

Temperature (°F)	120.00
Time (mins)	3.00

UNICHEM - Corporate Office
14505 Torrey Chase Boulevard, Houston, Texas 77014

Attachment "G"

**Greater Boundary Unit 1-27-8-17
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax	
Top	Bottom					
5931	6154	6043	1700	0.72	1687	←
5369	5388	5379	1910	0.79	1898	
4502	4612	4557	2100	0.90	2090	
				Minimum	<u>1687</u>	

Calculation of Maximum Surface Injection Pressure

Pmax = (Frac Grad -(0.433*1.005)) x Depth of Top Perf
 where pressure gradient for the fresh water is .433 psi/ft and
 specific gravity of the injected water is 1.005.

Frac Gradient = (ISIP +(0.433*Top Perf.))/Top Perf.

Please note: These are existing perforations; additional perforations may be added during the actual conversion procedure.



Attachment G-1
page 1 of 3

DAILY COMPLETION REPORT

WELL NAME: GBU 1-27-17

Report Date: July 17, 2001

Completion Day: 02

Present Operation: Completion

Rig: Ross #11

WELL STATUS

Surf Csg: 8 5/8" @ 310' Prod Csg: 5 1/2" Wt: 15.5# @ 6324' Csg PBTD: est 6309'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 EOT @: 0 BP/Sand PBTD: 6185'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	5931-5939'	4/32
			CP2 sds	5996- 6006'	4/40
			CP3 sds	6058 -6063'	4/20
			CP4 sds	6145 -6154'	4/ 36

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 16, 2001

SITP: _____ SICP: 0

MIRU Ross #11. Tally, drift, PU & TIH W/ 5 1/2" "TS" RBP, 2 3/8 tbg sub, 5 1/2" "HD" pkr & 2 7/8 8rd 6.5# J-55 tbg. Tbg displaced 15 BW on TIH. Isolate & breakdown CP sds as follows: Perfs 6145-54' brokedn @ 2250 psi. Injected @ 3.1 BPM @ 1900 psi. Perfs 6058-63' brokedn @ 3880 psi. Injected @ 3.7 BPM @ 2000 psi. Perfs 5996-6006' brokedn @ 2025 psi. Injected @ 3.7 BPM @ 1500 psi. Perfs 5931-39' brokedn @ 1040 psi. Injected @ 3.8 BPM @ 1100 psi. Used 8 BW for breakdowns. Reset RBP @ 6185'. TOH W/ tbg. LD pkr & RH. RU BJ Services and frac CP sds W/ 135,800# 20/40 sand in 822 bbls Viking I-25 fluid. Treated @ ave press of 1425 psi W/ ave rate of 35.5 BPM. ISIP-1700 psi. RD BJ. Begin immediate flowback of CP frac on 12/64 choke @ 1 BPM. Zone flowed 6 hrs & died. Rec 344 BTF (est 42% of frac load). SIFN W/ est 681 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 150 Starting oil rec to date: 0
Fluid lost/recovered today: 531 Oil lost/recovered today: _____
Ending fluid to be recovered: 681 Cum oil recovered: 0
IFL: _____ FFL: _____ FTP: _____ Choke: 12/64 Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac

Company: BJ Services

Procedure or Equipment detail:

9000 gals of pad
4500 gals W/ 1-5 ppg of 20/40 sand
9000 gals W/ 5-8 ppg of 20/40 sand
4000 gals W/ 8-10 ppg of 20/40 sand
2198 gals W/ 10 ppg of 20/40 sand
Flush W/ 5838 gals of slick water

COSTS

Ross rig	\$2,505
Weatherford BOP	\$130
Aztec-2 7/8 J-55 tbg	\$19,673
Hagman trucking	\$1,500
IPC trucking	\$300
Schlumberger-CBL	\$2,773
Zubiate-HO trk	\$200
Weatherford-tools/serv	\$3,500
Cameron-tbg head	\$1,500
BJ Services-CP sds	\$36,794
Fuel gas/frac wtr (IPC)	\$350
Drilling cost	\$172,682
IPC Supervision	\$200
DAILY COST:	\$242,107
TOTAL WELL COST:	\$246,401

Max TP: 2050 Max Rate: 36 BPM Total fluid pmpd: 822 bbls
Avg TP: 1425 Avg Rate: 35.5 BPM Total Prop pmpd: 135,800#
ISIP: 1700 5 min: _____ 10 min: _____ FG: _____
Completion Supervisor: Gary Dietz



DAILY COMPLETION REPORT

WELL NAME: GBU 1-27-8-17Report Date: July 18, 2001Completion Day: 03Present Operation: CompletionRig: Ross #11

WELL STATUS

Surf Csg: 8 5/8" @ 310' Prod Csg: 5 1/2" Wt: 15.5# @ 6324' Csg PBTD: est 6309'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 EOT @: 0 BP/Sand PBTD: 5560'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
B .5 sds	5369-5388'	4/76			
CP1 sds	5931-5939'	4/32			
CP2 sds	5996- 6006'	4/40			
CP3 sds	6058 -6063'	4/20			
CP4 sds	6145 -6154'	4/ 36			

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 17, 2001SITP: _____ SICP: 300

Bleed pressure off well. Rec est 6 BTF. RU Schlumberger and perf B .5 sds @ 5369-88' w/ 4 jspf. RD WLT. TIH W/ RH & tbg. Tbg displaced 13 BW on TIH. Tag sd @ 6014'. C/O sd to RBP @ 6185'. Circ hole clean. Lost no fluid. Release plug. Pull up & re-set @ 5560'. Pressure test plug to 3000 psi. TOH W/ RH & tbg. RU BJ Services and frac B .5 sds W/ 106,720# 20/40 sand in 759 bbls Viking I-25 fluid. Perfs broke dn @ 2791 psi. Treated @ ave press of 1600 psi W/ ave rate of 30 BPM. ISIP-1910 psi. RD BJ. Begin immediate flowback of B sd frac on 12/64 choke @ 1 BPM. Zone flowed 5 hrs & died. Rec 315 BTF (est 41% of frac load). SIFN W/ est 1119 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 681 Starting oil rec to date: 0
Fluid lost/recovered today: 438 Oil lost/recovered today: _____
Ending fluid to be recovered: 1119 Cum oil recovered: 0
IFL: _____ FFL: _____ FTP: _____ Choke: 12/64 Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: B .5 sands8000 gals of pad5250 gals W/ 1-5 ppg of 20/40 sand10500 gals W/ 5-8 ppg of 20/40 sand2814 gals W/ 8 ppg of 20/40 sandFlush W/ 5292 gals of slick water

COSTS

Ross rig	\$1,950
Weatherford BOP	\$130
Schlumberger-B sds	\$2,463
BJ Services-B sds	\$32,992
Frac water (piped)	\$100
Fuel gas (+/- 30 mcf)	\$150
Blck Dmnd-wtr/gas line	\$300
IPC flowback super	\$150
IPC Supervision	\$200

Max TP: 2250 Max Rate: 30 BPM Total fluid pmpd: 759 bblsAvg TP: 1600 Avg Rate: 30 BPM Total Prop pmpd: 106,720#ISIP: 1910 5 min: _____ 10 min: _____ FG: .79Completion Supervisor: Gary DietzDAILY COST: \$38,435TOTAL WELL COST: \$284,836



DAILY COMPLETION REPORT

WELL NAME: GBU 1-27-8-17Report Date: July 19, 2001Completion Day: 04Present Operation: CompletionRig: Ross #11

WELL STATUS

Surf Csg: 8 5/8" @ 310' Prod Csg: 5 1/2" Wt: 15.5# @ 6324' Csg PBTD: est 6309'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 EOT @: 0 BP/Sand PBTD: 4680'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB4 sds	<u>4502-4508'</u>	<u>4/24</u>	CP1 sds	<u>5931-5939'</u>	<u>4/32</u>
GB6 sds	<u>4608-4612'</u>	<u>4/16</u>	CP2 sds	<u>5996- 6006'</u>	<u>4/40</u>
			CP3 sds	<u>6058 -6063'</u>	<u>4/20</u>
B .5 sds	<u>5369-5388'</u>	<u>4/76</u>	CP4 sds	<u>6145 -6154'</u>	<u>4/ 36</u>

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 18, 2001SITP: _____ SICP: 200

Bleed pressure off well. Rec est 4 BTF. RU Schlumberger and perf GB6 sds @ 4608-12' & GB4 sds @ 4502-08' W/ 4 JSPF. 1 run. RD WLT. TIH W/ RH, tbg sub, 5 1/2" HD pkr & tbg. Tbg displaced 12 BW on TIH. Tag sd @ 5518'. C/O sd to RBP @ 5560'. Circ hole clean W/ no fluid loss. Release plug. Pull up & re-set @ 4680'. Press test plug to 3000 psi. Set pkr @ 4551'. Breakdown perfs 4608-12' (dn tbg) @ 1600 psi. Inject @ .75 BPM @ 1500 psi. Breakdown perfs 4502-08' (dn csg) @ 2600 psi. Inject @ .75 BPM @ 1200 psi. Used 2 BW for breakdowns. Release pkr. TOH W/ tbg--LD pkr. RU BJ Services and frac GB sds W/ 48,660# 20/40 sand in 391 bbls Viking I-25 fluid. Treated @ ave press of 1900 psi W/ ave rate of 29.8 BPM. ISIP-2100 psi. RD BJ. Begin immediate flowback of GB frac on 12/64 choke @ 1 BPM. Zone flowed 4 hrs & died. Rec 133 BTF (est 34% of frac load). SIFN W/ est 1363 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1119 Starting oil rec to date: 0
Fluid lost/recovered today: 244 Oil lost/recovered today: _____
Ending fluid to be recovered: 1363 Cum oil recovered: 0
IFL: _____ FFL: _____ FTP: _____ Choke: 12/64 Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: GB4 & GB6 sands3600 gals of pad2500 gals W/ 1-5 ppg of 20/40 sand5000 gals W/ 5-8 ppg of 20/40 sand900 gals W/ 8 ppg of 20/40 sandFlush W/ 4410 gals of slick water

COSTS

Ross rig	\$2,670
Weatherford BOP	\$130
Schlumberger-GB sds	\$2,154
BJ Services-GB sds	\$18,507
Frac water (piped)	\$100
Fuel gas (+/- 30 mcf)	\$150
IPC frac tks (4 X 4 days)	\$640
IPC frac head rental	\$200
IPC flowback super	\$125
IPC Supervision	\$200

Max TP: 2310 Max Rate: 30.1 BPM Total fluid pmpd: 391 bblsAvg TP: 1900 Avg Rate: 29.8 BPM Total Prop pmpd: 48,660#ISIP: 2100 5 min: _____ 10 min: _____ FG: .89Completion Supervisor: Gary DietzDAILY COST: \$24,876TOTAL WELL COST: \$309,712

ATTACHMENT H

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4405'.
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class G cement.
3. Plug #2 Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4. RU perforators and perforate with 4 shots at 360'.
5. Plug #3 Circulate 112 sx Class G cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus to surface.

The approximate cost to plug and abandon this well is \$33,025.

Greater Boundary Unit #1-27-8-17

Spud Date: 5/10/2001
 Put on Production: 7/23/2001
 GL: 5083' KB: 5093'

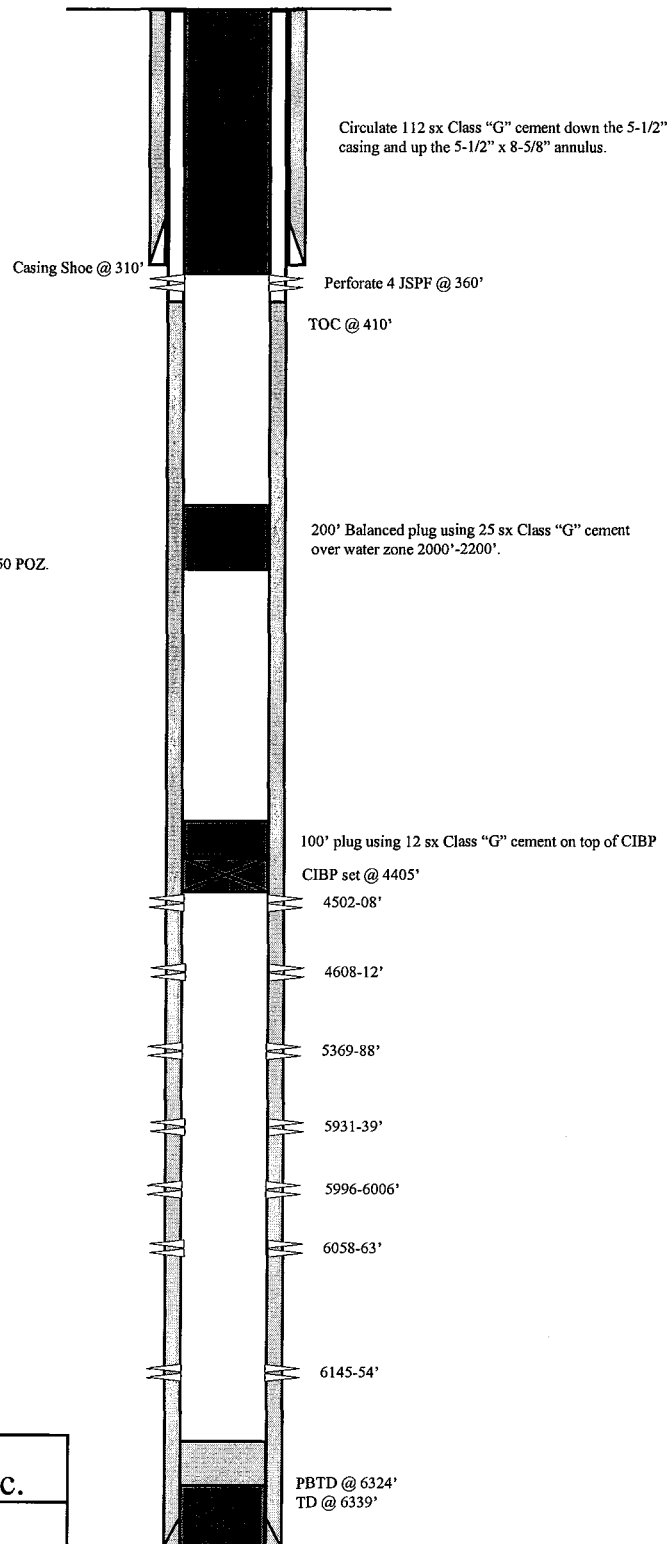
SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (302')
 DEPTH LANDED: 310'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts. (6329.05' KB)
 DEPTH LANDED: 6324' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: 410' per CBL

Proposed P&A
 Wellbore Diagram



Inland Resources Inc.

Greater Boundary Unit #1-27-8-17

733' FNL & 726' FEL

NENE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32228; Lease #UTU-76241

MC 2/14/03



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

OCT 18 2004

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David Gerbig
Operations Engineer
Inland Production Co.
1401 Seventeenth Street - Suite 1000
Denver, CO 80202

RECEIVED

OCT 20 2004

DIV. OF OIL, GAS & MINING

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

RE: ADDITIONAL WELL TO BOUNDARY
AREA PERMIT UT20702-00000
Greater Boundary Unit No. 1-27-8-17
Well ID: 20702-06172
NE NE Sec. 27 - T8S - 17E
Duchesne County, Utah

Dear Mr. Gerbig:

The Inland Production Co.(Inland) request **to convert** a former Green River Formation oil well, the Greater Boundary Unit No. 1-27-8-17, to an enhanced recovery injection well in the Boundary Area Permit is hereby authorized. The proposed Greater Boundary Unit No. 1-27-8-17 Class II enhanced recovery injection well is within the exterior boundary of the Boundary Area Permit UT20702-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c) and the terms of the Boundary Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Boundary Area Permit will apply to the conversion, operation, monitoring, and plugging and abandonment of the Greater Boundary Unit No.1-27-8-17.

Prior to beginning injection, the Environmental Protection Agency (EPA) requires that Inland submit for review and approval (1) the results of a **Part I (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, and (3) an **EPA Form No. 7520-12** (Well Rework Record).



Printed on Recycled Paper

Pursuant to Part II. Section C. Condition No. 4, (Injection Pressure Limitation), Boundary Area Permit UT20702-00000, the maximum initial authorized injection pressure (MAIP) shall not exceed 1800 psig. Using the applicant submitted fracture gradient (0.72 psi/ft) calculated from a sand/frac treatment, and the shallowest perforation, the EPA has calculated an MAIP of 1282 psig, **rounded down to 1280 psig**. The Boundary Area Permit, Part II. C. 4., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum authorized injection pressure.

Please be aware that Inland does not have authorization to begin injection into the Greater Boundary No. 1-27-8-17 until the Prior to Commencing Injection requirements, listed above, have been submitted and evaluated by the EPA, and Inland has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

If Inland has any questions, please call Mr. Dan Jackson at (800) 227-8917 (Ext. 6155), or in the Denver area at (303) 312-6155. Please submit the required pre-authorization to inject data to **ATTENTION: DAN JACKSON**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,

Maith Wong
for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

enclosures: EPA Form No. 7520-12 (Well Rework Record)
Ground Water Section Guidance No. 39 (Internal Mechanical Integrity)
Authorization For Conversion of An Additional Well
Conversion Schematic Diagram: Greater Boundary Unit No. 1-27-817

cc w/ enclosures: Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

Mike Guinn
Vice President - Operations
Inland Production Company

Gil Hunt
Technical Services Manager
State of Utah - Natural Resources

Ed Forsman
Sr. Petroleum Engineer
Bureau of Land Management
Vernal District



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

**AUTHORIZATION FOR AN ADDITIONAL WELL
TO THE
BOUNDARY AREA PERMIT: UT20702-00000**

The Environmental Protection Agency (EPA) authorizes the inclusion of an additional enhanced recovery injection well to the Boundary Area Permit No. UT20702-00000, as authorized by 40 CFR § 144.33 (c). The additional well is described as:

WELL NAME: GREATER BOUNDARY UNIT NO. 1-27-8-17

WELL PERMIT NUMBER: UT20702-06172

SURFACE LOCATION: 773' FNL & 726' FEL (NE NE)
Sec. 27 - T8S - R17E
Duchesne County, Utah.

This well is subject to all provisions of the original Boundary Area Permit No. UT20702-00000, and subsequent Modifications, unless specifically detailed below:

UNDERGROUND SOURCE OF DRINKING WATER (USDW): The base of the USDW (Total Dissolved Solids less than 10,000 mg/l) in the Greater Boundary Unit No. 1-27-8-17 occurs within the Uinta Formation **approximately 75 feet** from ground level (GL). The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at **310 feet** kelly bushing (KB) and cemented to the surface.

Reference: <http://NRWRT1.NR.STATE.UT.US...> Water Rights...Queries...POD: Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Greater Boundary Unit No. 1-27-8-17 there are no water or oil wells, springs, streams or reservoirs.

WATER ANALYSES:

Produced Green River Formation Water: (2/13/03) **16,497 mg/l TDS.**

Source Water: Johnson Water District Reservoir. (10/14/02) **554 mg/l TDS.**

Blended Injectate: (2/13/03) **8525 mg/l TDS.**



CONFINING ZONE REVIEW: Greater Boundary Unit No. 1-27-8-17.

The EPA has authorized the gross interval from the top of the Garden Gulch Member to the top of the Wasatch Formation as the enhanced recovery injection interval within the Boundary Area Permit. Overlying the top of the Garden Gulch Member, in the Greater Boundary Unit No. 1-27-8-17, are fifty-five (55) feet (4030 feet to 4085 feet) of Green River Formation black, slightly silty, impervious shale which forms an effective lithologic confining zone.

An EPA analysis of the Greater Boundary Unit No. 1-27-8-17 CBL/GR did identify 80% bond index cement bond across the Garden Gulch Member confining zone (4030 feet to 4085 feet), pursuant to standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 34: Cement Bond Logging Techniques and Interpretation. Therefore, it **has been determined that the cement in this well (4018 feet to 4127 feet) provides an effective barrier** to significant upward movement of fluids through vertical channels adjacent to the wellbore, pursuant to 40 CFR 146.8 (a) (2).

INJECTION ZONE REVIEW: Greater Boundary No. 1-27-8-17.

The Boundary Final Area Permit (Effective February 8, 1994) authorized injection into the Douglas Creek Member of the Green River Formation.

By Major Permit Modification No. 3 (Effective May 19, 2003), the EPA authorized the gross Green River Formation Garden Gulch-Douglas Creek-Basal Carbonate Members as the enhanced recovery injection interval throughout the Boundary Area Permit. The gross injection interval would be limited from a Garden Gulch Member top of 4164 feet kelly bushing (KB) to the top of the Wasatch Formation at 6515 feet (KB,) **as identified in the Federal No. 1-26** (NE NW Sec. 26-T8S-R17E. UT20702-04671. Duchesne County, Utah) TYPE LOG.

The gross correlative Green River Formation enhanced injection recovery interval for the Greater Boundary Unit No. 1-27-8-17 is from the Garden Gulch top of **4085 feet to the top of the Wasatch Formation (Estimated to be 6425 feet)**.

Lithologically, the gross authorized enhanced recovery injection interval, Garden Gulch to the top of the Wasatch Formation, is fluvial and lacustrine shale, fluvial and lacustrine sandstone, lacustrine marlstone, and limestone. The Uinta and Green River Formations are predominantly non-lacustrine fluvial shale and sandstone on the basin margins, whereas lacustrine deposition predominates in the central basin area for these two formations. The Wasatch Formation is predominantly fluvial, except for increasing minor lacustrine deposition in the central basin area.

WELL CONSTRUCTION REVIEW: Greater Boundary Unit No. 1-27-8-17.

SURFACE CASING: 8-5/8 inch casing is set at 310 feet in a 12-1/4 inch hole, using 145 sacks of Class "G" cement circulated to the surface. The base of the USDW is approximately 75 feet from ground level.

LONGSTRING CASING: 5-1/2 inch casing is set at 6324 feet ground level (KB) in a 7-7/8 inch hole, and cemented with 367 sacks of Premium Lite II mixed with 525 sacks of 50/50 Pozmix. Driller total depth is 6339 feet.

The operator identifies the top of cement at 410 feet by CBL.

The EPA analysis of the CBL/GR shows the shallowest interval of 80% cement bond index is from 4018 feet to 4127 feet, which lies across the confining zone overlying the Garden Gulch Member.

PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS

Tubing and Packer:

(Condition 3)

For injection purposes, the **Greater Boundary Unit No. 1-27-8-17** will be equipped with 2-7/8 tubing with a packer to be set at a depth no higher than 100 feet above the top perforation.

Formation Testing and Logging

(Condition 6)

- (a) Upon conversion of the **Greater Boundary Unit No. 1-27-8-17**, the permittee is required to determine the injection zone **fluid pore pressure** (static bottom hole pressure) prior to commencement of enhanced recovery injection operation. The results of this test shall be submitted to the EPA.
- (b) A **Step-Rate Test (SRT)** shall be performed on the **Greater Boundary Unit No. 1-27-8-17** within 180 days after injection operations are initiated. The results shall be submitted to the EPA. The permittee will contact the EPA prior to conducting the SRT to acquire the most current Guidance for conducting the SRT.

Three (3) **sand/frac treatments** were run on the Greater Boundary Unit No. 1-27-8-17; the minimum fracture gradient value was 0.72 psi/ft.

An EPA review fracture gradients, both Step-Rate Tests (SRT) and sand/frac treatment, in Section 27 - T8S - R17E and contiguous sections, indicates that permittee proposed sand/frac fracture gradient of 0.72 is within the norm. However, Inland is being required to run an SRT within 180 days following commencement of injection.

The EPA will calculate an initial maximum surface injection pressure based upon an average of the permittee submitted sand/frac minimum fracture gradient of 0.72 psi/ft.

PART II. B.

Corrective Action

As of September 2004, there are two (2) active Green River oil wells within the one-quarter (1/4) mile radius around the Greater Boundary No. 1-27-8-17. No wells need Corrective Action.

Garden Gulch-Douglas Creek Members Oil Wells:

Greater Boundary Unit No. 2-27-8-17:

NW SE Sec. 27 -T8S-R17E

Top Garden Gulch Member:	4106 feet
Garden Gulch Confining Zone:	4032 feet to 4106 feet
Top 80% EPA Cement Bond:	4220 feet to 4272 feet
Top Douglas Creek Member:	5098 feet

The 74-foot confining shale (4032 feet to 4106 feet) overlying the top of the Garden Gulch Member (4106 feet) is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Greater Boundary Unit No. 1-27-8-17 Permit.** The Greater Boundary Unit No. 1-27-8-17 will suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

Greater Boundary Unit No. 8-27-8-17:

SE NE Sec. 27-T8S-R17E

Top Garden Gulch Member:	4053 feet
Garden Gulch Confining Zone:	4000 feet to 4053 feet
Top 80% EPA Cement Bond:	4150 feet to 4402 feet
Top Douglas Creek Member:	5100 feet

The 53-foot confining shale (4000 feet to 4053 feet) overlying the top of the Garden Gulch Member (4053 feet) is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent the upward movement of injected fluids through vertical channels adjacent to the well bore.

The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Greater Boundary Unit No. 1-27-8-17 Permit.** The Greater Boundary Unit No. 1-27-8-17 will suspend operations immediately, and will stay suspended until the noncompliance has been resolved and renewed injection has been approved in writing by the Director.

PART II. C.

Prior to Commencing Injection (Additional Wells)

(Condition 2)

Greater Boundary Unit No. 1-27-8-17: This document is being issued without authority to inject. Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

- A successful **mechanical integrity test (MIT)** demonstrating Part I Internal MI (Enclosed);
- a **pore pressure calculation** of the proposed injection zone; and an
- EPA Form No. 7520-12 (**Well Rework Record**, enclosed).

Cement records for this well show that adequate cement was placed in the Greater Boundary No. 1-27-8-17. The Cement Bond Log (CBL) confirms that this cement meets or exceeds minimum requirements needed to demonstrate zone isolation (at least 15 feet of continuous 80% cement bond, or better) through the confining zone. The CBL for the Greater Boundary No. 1-27-8-17 shows 109 feet (4018 feet - 4127 feet) across the confining interval 4030 feet to 4085 feet. Therefore, further testing for Part II Mechanical Integrity will not be required.

Please be advised that all tests will be conducted following current EPA Guidelines. Deviations from those Guidelines, without written approval of the Director, may result in denial of the survey/test.

Injection Interval

(Condition 3)

Injection shall be limited to the **gross Garden Gulch, Douglas Creek and Basal Carbonate Members of the Green River Formation**, 4085 feet (KB) to the top of the Wasatch Formation, estimated to be 6425 feet.

Injection Pressure Limitation

(Condition 4)

Pursuant to Final Area Permit UT20702-00000, Part II. Section C. 4. (b). the maximum authorized injection pressure (MAIP) shall not exceed 1800 psig. Until such time that a step-rate injectivity test (SRT) has been performed, reviewed, and approved by the EPA, the initial maximum authorized injection pressure (MAIP) for the **Greater Boundary Unit No. 1-27-8-17** shall not exceed **1280 psig.**

$$\begin{aligned}
 \text{MAIP} &= [\text{FG} - (0.433)(\text{SG}) \text{ D}] \\
 \text{FG} &= 0.72 \text{ psi/ft.} \\
 \text{SG} &= 1.005 \\
 \text{D} &= 4502 \text{ feet. Top perforation.} \\
 \text{MAIP} &= [0.72 - (0.433)(1.005)] 4502
 \end{aligned}$$

$$\text{MAIP} = 1282 \text{ psig but decreased to } \underline{1280 \text{ psig.}}$$

Final Area Permit (UT20702-00000), has a provision whereby the operator may request an increase, or decrease, in the maximum surface injection pressure.

PART II. F.Demonstration of Financial Responsibility:

(Condition 1)

The applicant has chosen to demonstrate financial responsibility via a **Financial Statement** that has been reviewed and approved by the EPA.

PART III. E.Reporting of Noncompliance:

(Condition 10)

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted **no later than thirty (30) days following each schedule date.**
- (c) Written Notice of any noncompliance which may endanger health or the environment **shall be reported to the Director within five (5) days** of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been

corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

(Condition 11)

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227-8917 and asking for the **EPA Region VIII UIC Program Compliance and Enforcement Director**, or by contacting the **Region VIII Emergency Operations Center at 303.293.1788** if calling from outside EPA Region VIII. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting:

(Condition 12)

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1.800.424.8802 or 202.267.2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**.

Other Noncompliance:

(Condition 13)

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III. 10. c. ii. of this Permit.

Other Information: Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

APPENDIX C

PLUGGING AND ABANDONMENT: The Plugging and Abandonment (P&A) Plan (Application Attachment Q-2) submitted by the applicant has been reviewed and modified (Plug No. 3 AND No. 4.) by the EPA. The P&A Plan is now consistent with EPA requirements to

protect all USDWs. The permittee will place 9.2 ppg plugging gel or bentonite mud between all cement plugs.

PLUG NO. 1: Set a cast iron bridge plug (CIBP) at 4405 feet. Set a 100-foot cement plug on top of the CIBP.

PLUG NO. 2: Set a cement plug inside of the 5-1/2 inch casing from 2000 feet to 2200 feet over a water zone.

PLUG NO. 3: Set a cement plug from surface to 360 feet down the 5-1/2 inch casing.

PLUG NO. 4: Set a cement plug, on the backside of the 5-1/2 inch casing from surface to a depth of 360 feet.

This authorization for well conversion of the Greater Boundary Unit No. 1-27-8-17 injection well becomes effective upon signature.

Date: 10/18/04

for Judith Wong
Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

Greater Boundary Unit #1-27-8-17

Spud Date: 5/10/2001
Put on Production: 7/23/2001
GL: 5083' KB: 5093'

Initial Production: 77.5 BOPD,
47.4 MCFD, 28.5 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (302') *Base USDW's 75'*
DEPTH LANDED: 310'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 150 jts. (6329.05' KB)
DEPTH LANDED: 6324' KB
HOLE SIZE: 7-7/8"
CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
CEMENT TOP AT: 410' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 195 jts (6106')
TUBING ANCHOR: 6116'
NO. OF JOINTS: 2 jts (63')
SEATING NIPPLE: 2-7/8" (1.10")
SN LANDED AT: 6182' KB
NO. OF JOINTS: 1 jt (31')
TOTAL STRING LENGTH: EOT @ 6215'

Proposed Injector Wellbore Diagram

FRAC JOB

7/16/01 5931'-6154' Frac CP sand as follows:
135,800# 20/40 sand in 822 bbls Viking
I-25 fluid. Treated @ avg press of 1425
psi w/avg rate of 35.5 BPM. ISIP 1700
psi. Flowed for 6 hrs. then died.
7/17/01 5369'-5388' Frac B-0.5 sand as follows:
106,720# 20/40 sand in 759 bbls Viking
I-25 fluid. Treated @ avg press of 1600
psi w/avg rate of 30 BPM. ISIP 1910
psi. Flowed for 5 hrs. then died.
7/18/01 4502'-4612' Frac GB sand as follows:
48,660# 20/40 sand in 391 bbls Viking
I-25 fluid. Treated @ avg press of 190
psi w/avg rate of 29.8 BPM. ISIP 2100
psi. Flowed for 4 hrs. then died.

*Top 80% Bond 4018'- 4127'
Confining Zone 4030'- 4085'
- 4085' Garden Gukh Mem.*

PERFORATION RECORD

Date	Interval	Tool	Holes
7/14/01	6145'-6154'	4 JSPF	36 holes
7/14/01	6058'-6063'	4 JSPF	20 holes
7/14/01	5996'-6006'	4 JSPF	40 holes
7/14/01	5931'-5939'	4 JSPF	32 holes
7/17/01	5369'-5388'	4 JSPF	76 holes
7/18/01	4608'-4612'	4 JSPF	16 holes
7/18/01	4502'-4508'	4 JSPF	24 holes

Packer @ 4467'

4502'-08"

4608'-12"

- 5077' Douglas Cr. Mem.

5369'-08"

5931'-39"

5996'-0006"

6058'-63"

6145'-54"

- 6301' Basal Carbonate Mem.

PBTD @ 6324'
TD @ 6339'

- Est. 6425' Wasatch Fm



Inland Resources Inc.

Greater Boundary Unit #1-27-8-17

733' FNL & 726' FEL

NENE Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32228; Lease #UTU-76241



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39
Pressure testing injection wells for Part I (internal)
Mechanical Integrity

FROM: Tom Pike, Chief *Tom Pike*
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized

by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter depending on well specific conditions (See Region VIII UIC Section Guidance #36);
5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

- 1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form. A pressure recording chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.

2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.
7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.

10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.
15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES

N									
S									

W E

STATE

COUNTY

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section Township Range

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface
Location ft. from (N/S) Line of quarter section

and ft. from (E/W) Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- ☐ Individual
☐ Area
 Number of Wells

Well Number

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

RECEIVED

JAN 04 2005

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

DIV. OF OIL, GAS & MINING

WELL DESIGNATION AND SERIAL NUMBER:

UTU76241

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER	
2. NAME OF OPERATOR:		7. UNIT or CA AGREEMENT NAME:	
Newfield Production Company		GREATER BOUNDARY II	
3. ADDRESS OF OPERATOR:		8. WELL NAME and NUMBER:	
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		GREATER BOUNDARY 1-27-8-17	
PHONE NUMBER		9. API NUMBER:	
435.646.3721		4301332228	
10. FIELD AND POOL, OR WILDCAT:			
Monument Butte			

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 733 FNL 726 FEL

COUNTY: Duchesne

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/NE, 27, T8S, R17E

STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
12/30/2004	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well was converted from a producing to an injection well on 12/13/04. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly at 4429'. On 12/22/04 Mr. Dan Jackson w/EPA was notified of the intent to conduct a MIT on the casing. On 12/23/04 the casing was pressured to 1370 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Krishna Russell

TITLE Production Clerk

SIGNATURE

Krishna Russell

DATE December 30, 2004

(This space for State use only)

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 12 / 23 / 04

Test conducted by: BRET HENZIE

Others present: _____

Well Name: <u>GREATER BOUNDARY 1-27-B-17</u>	Type: <input checked="" type="checkbox"/> SWD	Status: AC TA <input checked="" type="checkbox"/>
Field: <u>GREATER BOUNDARY UNIT</u>		
Location: <u>NE/NE</u> Sec: <u>27</u> T <u>8</u> N/S R <u>17</u> E/W County: <u>RICHESNE</u> State: <u>UT</u>		
Operator: <u>NEWFIELD</u>		
Last MIT: <u>- / NA / -</u> Maximum Allowable Pressure: _____ PSIG		

Is this a regularly scheduled test? ☐ Yes ☒ No
 Initial test for permit? ☒ Yes ☐ No
 Test after well rework? ☐ Yes ☒ No
 Well injecting during test? ☐ Yes ☒ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 psig

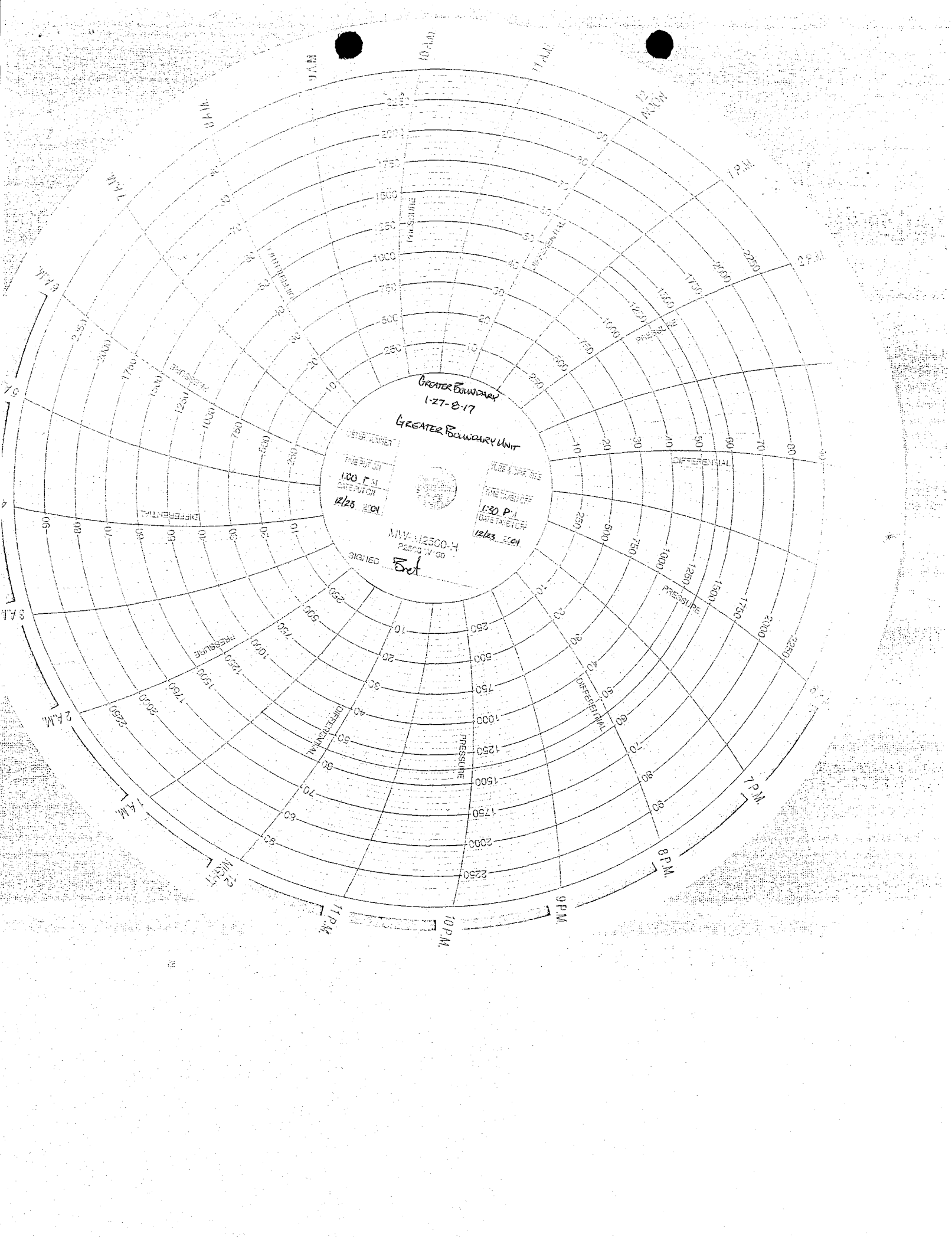
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	320 psig	psig	psig
End of test pressure	320 psig	psig	psig
CASING / TUBING	ANNULUS PRESSURE		
0 minutes	1370 psig	psig	psig
5 minutes	1370 psig	psig	psig
10 minutes	1370 psig	psig	psig
15 minutes	1375 psig	psig	psig
20 minutes	1375 psig	psig	psig
25 minutes	1380 psig	psig	psig
30 minutes	1380 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

JAN 20 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David Gerbig
Operations Engineer
Newfield Production Company
1401 Seventeenth Street - Suite 1000
Denver, CO 80202

RECEIVED
JAN 24 2005
DIV OF OIL, GAS, & MINING

REF: UNDERGROUND INJECTION CONTROL (UIC)
Authority to Commence Injection
Well Permit No. UT20702-06172
Greater Boundary No. 1-27-8-17
Duchesne County, Utah

43-013-32228

Dear Mr. Gerbig:

Newfield Production Company (Newfield) has satisfactorily fulfilled all the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in the Well Permit, UT20702-06172 (Effective October 18, 2004). All Prior to Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record (EPA Form No. 7520-12), and a pore pressure were reviewed and approved by the EPA on January 4, 2005.

Newfield, as of the date of this letter, is authorized to commence injection into the Greater Boundary No. 1-27-8-17. There will be no limitation on the number of barrels of water that will be injected into the Green River Formation interval 4085 feet to the top of the Wasatch Formation, estimated to be 6425 feet. Until such time that the permittee demonstrates through a Step-Rate Injectivity Test that the fracture gradient is other than 0.72 psi/ft, the Greater Boundary No. 1-27-8-17 shall be operated at a **maximum allowable injection pressure no greater than 1280 psig.**

As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region VIII UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:




Printed on Recycled Paper

Mr. Nathan Wiser
Technical Enforcement Program - UIC
U.S. EPA Region VIII: Mail Code 8ENF-UFO
999-18th Street - Suite 300
Denver, CO 80202-2466
Phone: 303-312-6211, or 1.800.227.8917 (Ext. 6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Permit UT20702-06172. If you have any questions in regard to the above action, please contact Dan Jackson at 303-312-6155 in the Denver area, or 1.800.227.8917 (Ext. 6155).

Sincerely,



Sandra A. Stavnes
Director
Ground Water Program

cc: Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

Mike Guinn
Vice President - Operations
Newfield Production Company
Myton, UT 84052

Gil Hunt
Technical Services Manager
State of Utah - Natural Resources

Ed Forsman
Sr. Petroleum Engineer
Bureau of Land Management
Vernal District

Nathan Wiser
8ENF-UFO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Injection well

2. Name of Operator

Newfield Production Company

3a. Address

Route 3 Box 3630
Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

733 FNL 726 FEL

NE/NE Section 27 T8S R17E

5. Lease Serial No.

UTU76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

GREATER BOUNDARY II

8. Well Name and No.

GREATER BOUNDARY 1-27-8-17

9. API Well No.

4301332228

10. Field and Pool, or Exploratory Area
Monument Butte

11. County or Parish, State

Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status, Put Well
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	on Injection

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above referenced well was put on injection at 9:00 a.m. on 1/25/05.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED

JAN 26 2005

DIV. OF OIL, G. & MINING

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)
Mandie Crozier

Title

Regulatory Specialist

Signature

Date

1/25/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov>



IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office
From: Acting Chief, Branch of Fluid Minerals
Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



Office of the Secretary of State

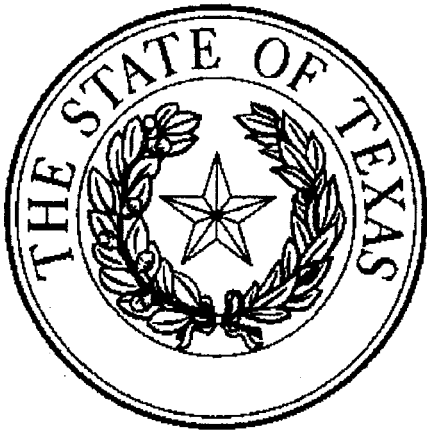
The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

OPERATOR CHANGE WORKSHEET**ROUTING**

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change**Merger**

The operator of the well(s) listed below has changed, effective:

9/1/2004**FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

TO: (New Operator):

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

CA No.**Unit:****GREATER BOUNDARY (GR)****WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
GBU 3-27-8-17	27	080S	170E	4301332224	12391	Federal	WI	A
GBU 5-27-8-17	27	080S	170E	4301332225	12391	Federal	OW	P
GBU 12-27-8-17	27	080S	170E	4301332226	12391	Federal	OW	P
GBU 1-27-8-17	27	080S	170E	4301332228	12391	Federal	OW	P
GBU 2-27-8-17	27	080S	170E	4301332229	12391	Federal	OW	P
GBU 4-27-8-17	27	080S	170E	4301332230	12391	Federal	OW	P
GBU 6-27-8-17	27	080S	170E	4301332231	12391	Federal	OW	P
GBU 7-27-8-17	27	080S	170E	4301332232	12391	Federal	OW	P
GBU 8-27-8-17	27	080S	170E	4301332233	12391	Federal	OW	P
GBU 9-27-8-17	27	080S	170E	4301332234	12391	Federal	OW	P
GBU 10-27-8-17	27	080S	170E	4301332235	12391	Federal	OW	P
GBU 11-27-8-17	27	080S	170E	4301332243	12391	Federal	OW	P
GBU 13-27-8-17	27	080S	170E	4301332244	12391	Federal	OW	P
GBU 14-27-8-17	27	080S	170E	4301332245	12391	Federal	OW	P
TAR SANDS FED 9-28-8-17	28	080S	170E	4301332067	12391	Federal	WI	A
TAR SANDS FED 8-28-8-17	28	080S	170E	4301332068	12391	Federal	OW	P
TAR SANDS FED 7-28-8-17	28	080S	170E	4301332069	12391	Federal	WI	A
TAR SANDS FED 15-28-8-17	28	080S	170E	4301332109	12391	Federal	WI	A
TAR SANDS FED 16-28-8-17	28	080S	170E	4301332111	12391	Federal	OW	P
GREATER BOUNDARY 11-28-8-17	28	080S	170E	4301332134	12391	Federal	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU76241

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☐ OTHER ☐ Injection well

2. NAME OF OPERATOR:

Newfield Production Company

3. ADDRESS OF OPERATOR:

Route 3 Box 3630

CITY Myton

STATE UT

ZIP 84052

PHONE NUMBER

435.646.3721

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 733 FNL 726 FEL

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

GREATER BOUNDARY II

8. WELL NAME and NUMBER:

GREATER BOUNDARY 1-27-8-17

9. API NUMBER:

4301332228

10. FIELD AND POOL, OR WILDCAT:

Monument Butte

COUNTY: Duchesne

STATE: Utah

OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE/NE, 27, T8S, R17E

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF ACTION SubDate

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will

☒ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of Work Completion:

07/21/2005

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/STOP)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLAIR

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: - Step Rate Test

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on July 15, 2005. The parting pressure was not reached during the test. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to the instantaneous shut in pressure of 1390 psi.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED

JUL 26 2005

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Mike Guinn

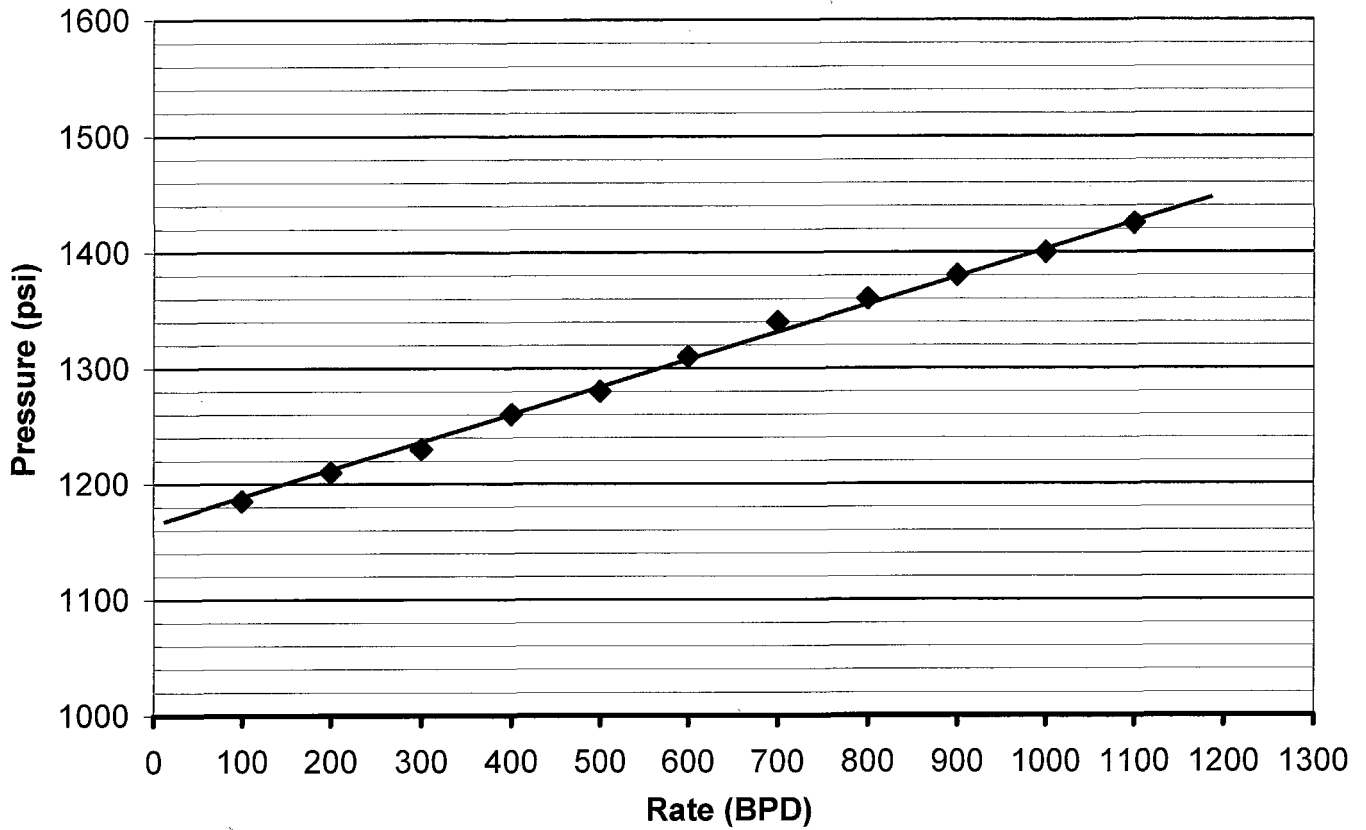
TITLE Engineer

SIGNATURE

DATE 07/21/2005

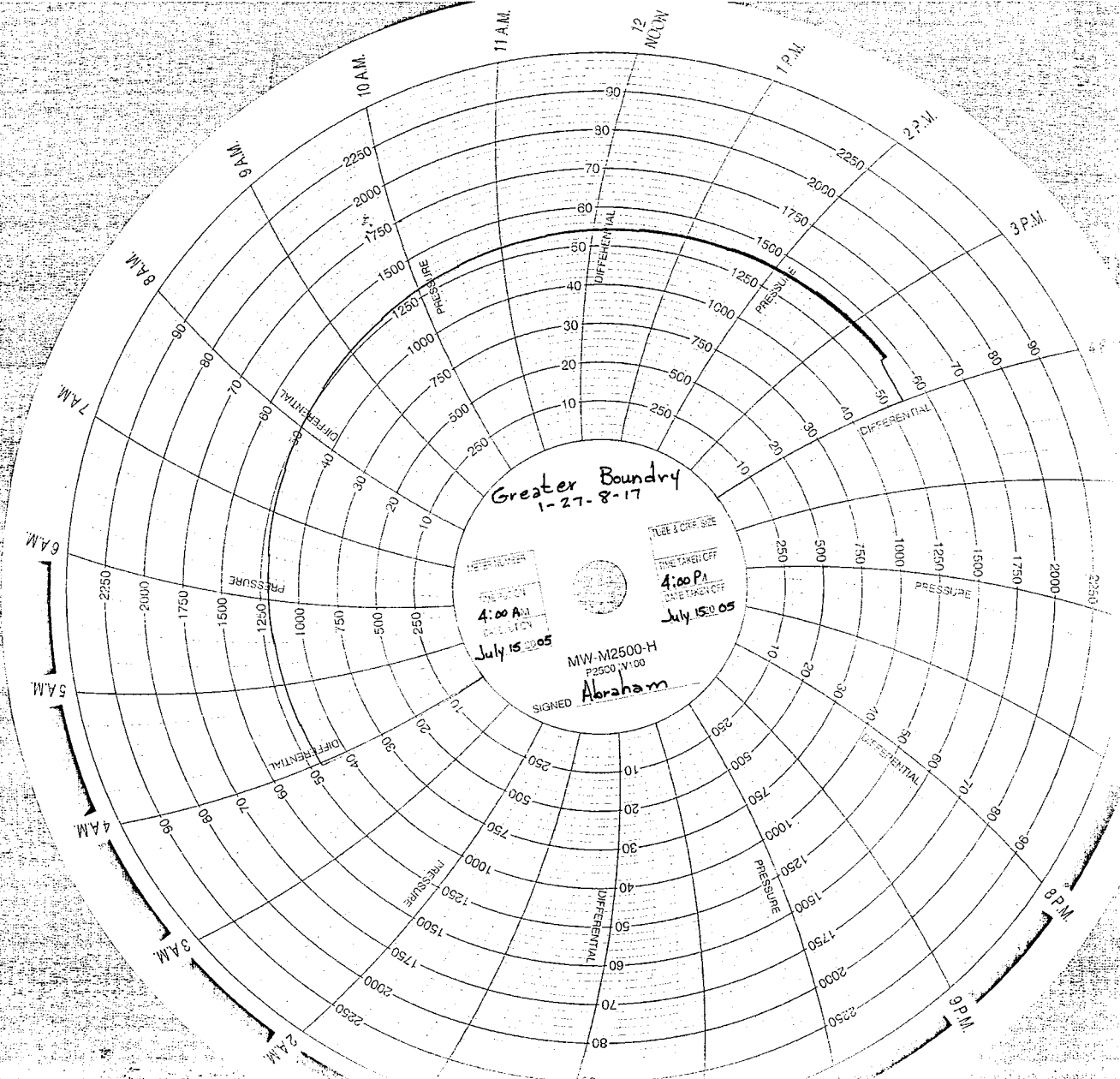
(This space for State use only)

Greater Boundry 1-27-8-17
Greater Boundry Unit
Step Rate Test
July 15, 2005



Start Pressure: 1170 psi
Instantaneous Shut In Pressure (ISIP): 1390 psi
Top Perforation: 4502 feet
Fracture pressure (Pfp): NA psi
FG: NA psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	1185
2	200	1210
3	300	1230
4	400	1260
5	500	1280
6	600	1310
7	700	1340
8	800	1360
9	900	1380
10	1000	1400
11	1100	1425



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER			5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-76241
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052			7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY II
PHONE NUMBER 435.646.3721			8. WELL NAME and NUMBER: GREATER BOUNDARY 1-27-8-17
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 733 FNL 726 FEL			9. API NUMBER: 4301332228
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NENE, 27, T8S, R17E			10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
			COUNTY: DUCHESNE
			STATE: UT

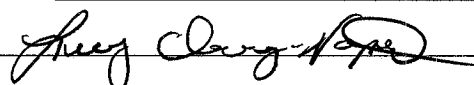
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 10/09/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Five Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 9-29-09 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 9-30-09. On 10-09-09 the casing was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tubing pressure was 1305 psig during the test. There was not an EPA representative available to witness the test. EPA# UT 20702-06172 API# 43-013-32228

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

NAME (PLEASE PRINT) <u>Lucy Chavez-Naupoto</u>	TITLE <u>Production Tech</u>
SIGNATURE 	DATE <u>10/12/2009</u>

(This space for State use only)

RECEIVED
OCT 14 2009
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 10/09/09
Test conducted by: Dele Giles
Others present: _____

Well Name: <u>Greater Boundary 1-27-8-17</u>		Type: ER SWD	Status: AC TA UC
Field: <u>Greater Boundary Unit</u>			
Location: _____	Sec: <u>27 T 8 N 10 R 17 E</u>	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Newfield production co.</u>			
Last MIT: <u>1</u>	Maximum Allowable Pressure: <u>1390</u>	PSIG	

Is this a regularly scheduled test? ☒ Yes ☐ No
Initial test for permit? ☐ Yes ☒ No
Test after well rework? ☐ Yes ☒ No
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 14 bpd

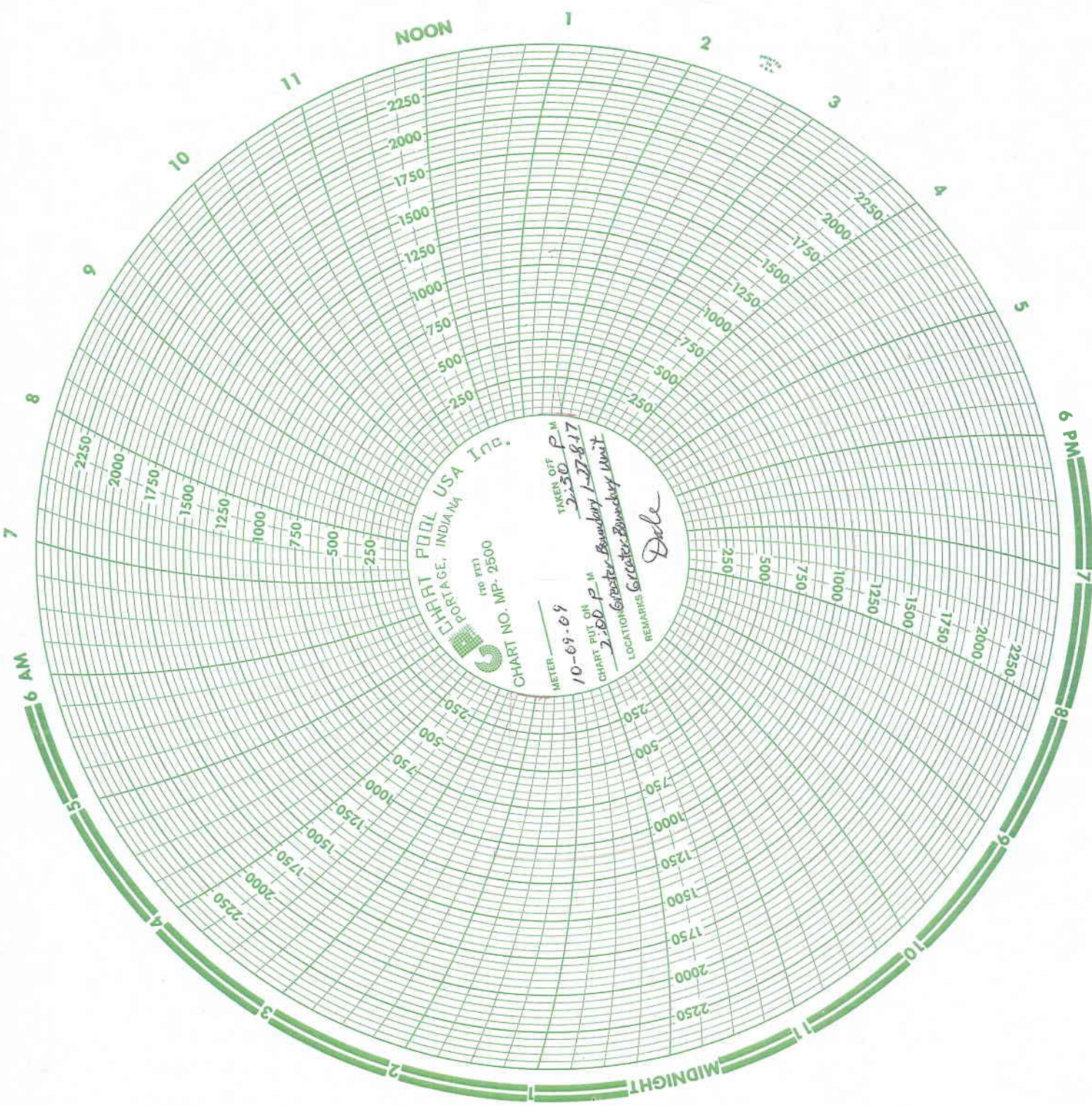
Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>1305</u> psig	psig	psig
End of test pressure	<u>1305</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1100</u> psig	psig	psig
5 minutes	<u>1100</u> psig	psig	psig
10 minutes	<u>1100</u> psig	psig	psig
15 minutes	<u>1100</u> psig	psig	psig
20 minutes	<u>1100</u> psig	psig	psig
25 minutes	<u>1100</u> psig	psig	psig
30 minutes	<u>1100</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:



NOON

1

2

3

4

5

6 PM

7

8

9

10

11

MIDNIGHT

2

3

4

5

6 AM

7

8

9

10

11

CHART POOL USA Inc.
PORTAGE, INDIANA
CHART NO. MP- 2500
TWO SETS

TAKEN OFF P.M.
2:50
CHART PUT ON P.M.
10-69-69
LOCATION
2:00 P.M. Boundary 1-27-81
2:00 P.M. Boundary 1-27-81
REMARKS
Dale

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELL
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
733 FNL 726 FEL
NENE Section 27 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GREATER BOUNDARY II

8. Well Name and No.

GREATER BOUNDARY 1-27-8-17

9. API Well No.

4301332228

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE
11. County or Parish, State

DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Step Rate Test _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

A step rate test was conducted on the subject well on October 7, 2009. Results from the test indicate that the fracture gradient is .781 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1535 psi.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

I hereby certify that the foregoing is true and
correct *Printed/ Typed*

Chevenne Bateman

Signature



Title

Well Analyst Foreman

Date

11/05/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or
certify that the applicant holds legal or equitable title to those rights in the subject lease
which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

RECEIVED

NOV 16 2009

DIV. OF OIL, GAS & MINING

Step Rate Test (SRT) Analysis

Date: 11/05/2009

Operator:

Newfield Production Company

Well:

Greater Boundary 1-27-8-17

Permit #:

UT20702-06172

Enter the following data :

Specific Gravity (sg) of injectate =	<u>1.015</u>	g/cc	
Depth to top perforation (D) =	<u>4502</u>	feet	4502
Top of permitted injection zone depth (blank=use top perforation to calculate fg) =		feet	
Estimated Formation Parting Pressure (Pfp) from SRT chart =	<u>1535</u>	psi	
Instantaneous Shut In Pressure (ISIP) from SRT =	<u>1573</u>	psi	1535
Bottom Hole Parting Pressure (Pbhp) from downhole pressure recorder =		psi	no downhole

Part One - Calculation of Fracture Gradient (fg)

Calculated Fracture Gradient = 0.781 psi/ft.

where: $fg = Pbhp / D$ (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1573

D = depth used = 4502

Pbhp used = 3514

Calculated Bottom Hole Parting Pressure (Pbhp) = 3514 psi

3513.606

to calculate Bottom Hole Parting Pressure (Pbhp) = Formation Fracture Pressure (ISIP or Pfp) + (0.433 * SG * D)

(Uses lesser of ISIP or Pfp) Value used = 1535

Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

Maximum Allowable Injection Pressure (MAIP) = 1535 psig

D = depth used = 4502

MAIP = $[fg - (0.433 * SG)] * D = 1537.456$

(rounded down to nearest 5 psig)

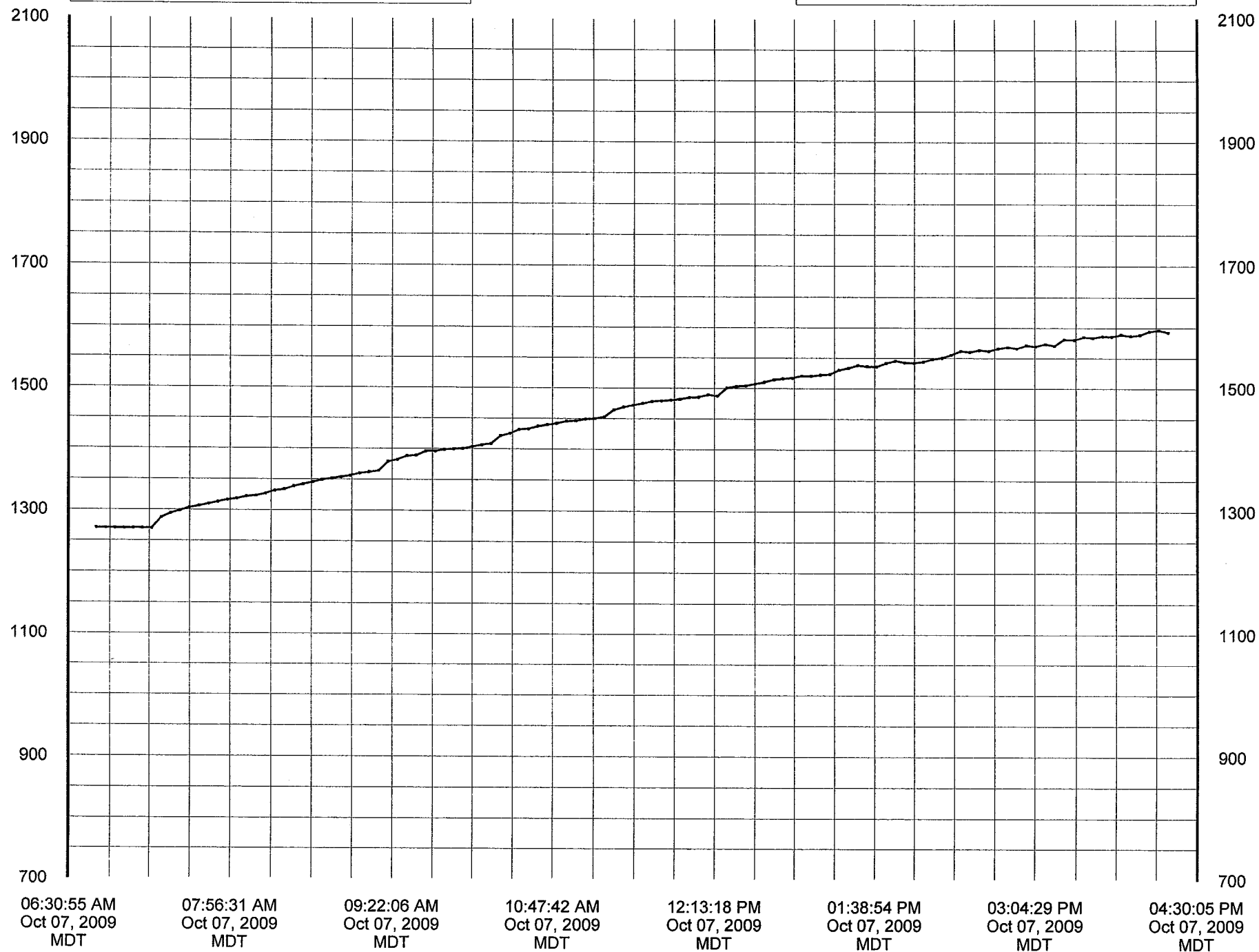
PSIA

Absolute Pressure

Greater Boundary 1-27-8-17 SRT
(10-7-09)

Device - PrTemp1000
Serial Number - M75866
Device ID - PrTemp

PSIA



Report Name:

Report Date:

File Name:

PrTemp1000 Data Table

Oct 08, 2009 08:17:14 AM MDT

S:\Wellinfo\PTC@ Instruments 2.00\Greater Boundary 1-27-8-17 SRT
(10-7-09).csv

Title:

Greater Boundary 1-27-8-17 SRT (10-7-09)

Device:

PrTemp1000 - Temperature and Pressure Recorder

Hardware Revision:

REV2C (64K)

Serial Number:

M75866

Device ID:

PrTemp

Data Start Date:

Oct 07, 2009 06:45:00 AM MDT

Data End Date:

Oct 07, 2009 04:15:01 PM MDT

Reading Rate:

2 Seconds

Readings:

1 to 115 of 115

Last Calibration Date:

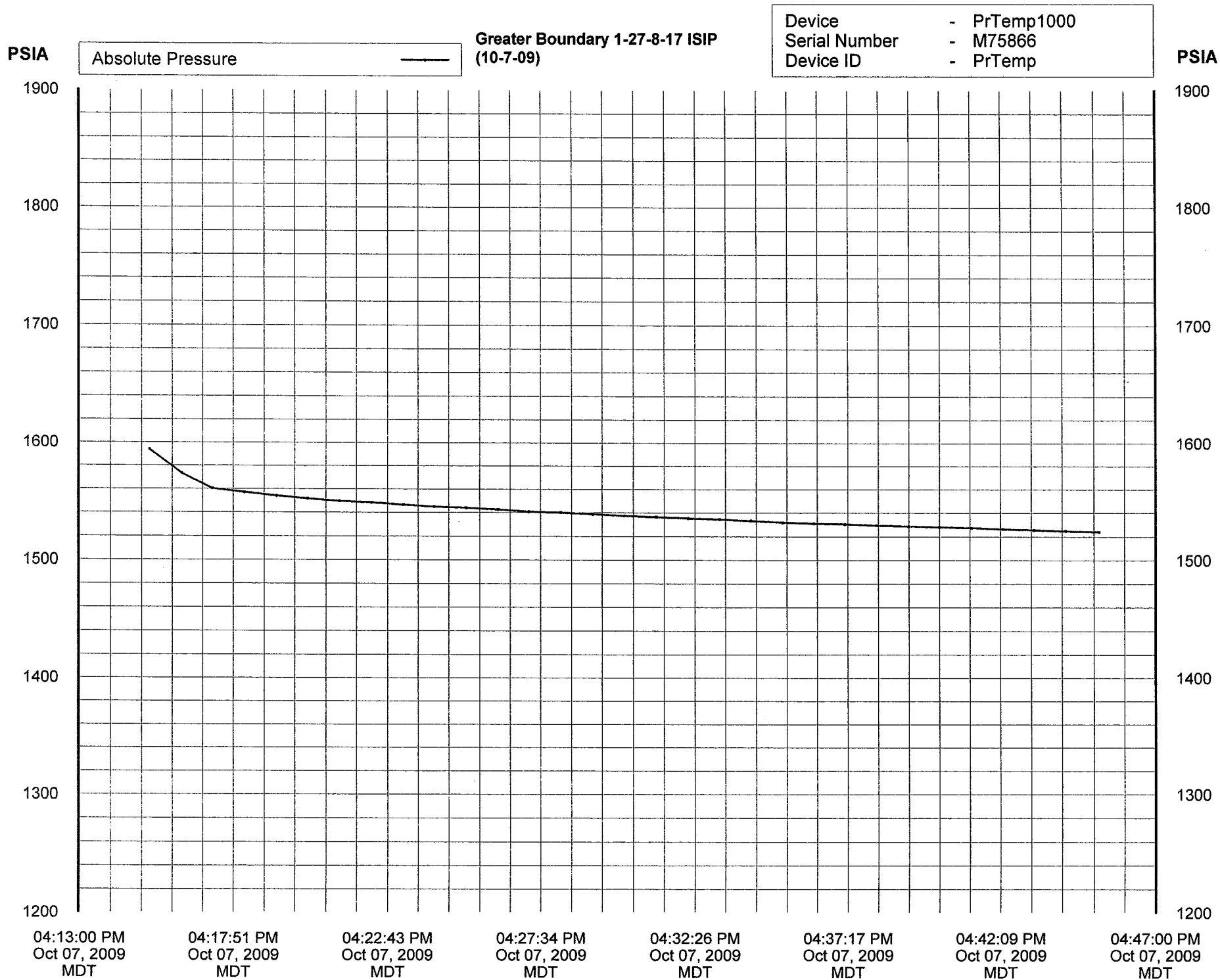
May 22, 2009

Next Calibration Date:

May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Oct 07, 2009 06:45:00 AM	1270.600	PSIA
2	Oct 07, 2009 06:49:59 AM	1270.200	PSIA
3	Oct 07, 2009 06:55:00 AM	1270.000	PSIA
4	Oct 07, 2009 07:00:01 AM	1269.800	PSIA
5	Oct 07, 2009 07:05:00 AM	1270.000	PSIA
6	Oct 07, 2009 07:09:59 AM	1270.000	PSIA
7	Oct 07, 2009 07:15:00 AM	1269.800	PSIA
8	Oct 07, 2009 07:20:00 AM	1287.000	PSIA
9	Oct 07, 2009 07:25:00 AM	1294.200	PSIA
10	Oct 07, 2009 07:30:00 AM	1298.600	PSIA
11	Oct 07, 2009 07:34:59 AM	1303.600	PSIA
12	Oct 07, 2009 07:40:01 AM	1306.400	PSIA
13	Oct 07, 2009 07:45:00 AM	1309.600	PSIA
14	Oct 07, 2009 07:50:00 AM	1313.000	PSIA
15	Oct 07, 2009 07:55:00 AM	1316.200	PSIA
16	Oct 07, 2009 08:00:01 AM	1318.200	PSIA
17	Oct 07, 2009 08:05:00 AM	1322.000	PSIA
18	Oct 07, 2009 08:10:00 AM	1323.000	PSIA
19	Oct 07, 2009 08:15:01 AM	1326.400	PSIA
20	Oct 07, 2009 08:20:00 AM	1331.600	PSIA
21	Oct 07, 2009 08:25:00 AM	1333.400	PSIA
22	Oct 07, 2009 08:29:59 AM	1338.600	PSIA
23	Oct 07, 2009 08:35:00 AM	1342.000	PSIA
24	Oct 07, 2009 08:39:59 AM	1345.400	PSIA
25	Oct 07, 2009 08:45:01 AM	1349.200	PSIA
26	Oct 07, 2009 08:50:01 AM	1351.200	PSIA
27	Oct 07, 2009 08:55:00 AM	1353.200	PSIA
28	Oct 07, 2009 09:00:00 AM	1355.800	PSIA
29	Oct 07, 2009 09:04:59 AM	1359.600	PSIA
30	Oct 07, 2009 09:10:00 AM	1361.800	PSIA
31	Oct 07, 2009 09:14:59 AM	1363.800	PSIA
32	Oct 07, 2009 09:20:00 AM	1378.800	PSIA
33	Oct 07, 2009 09:25:00 AM	1381.800	PSIA
34	Oct 07, 2009 09:30:01 AM	1388.000	PSIA
35	Oct 07, 2009 09:35:00 AM	1388.800	PSIA
36	Oct 07, 2009 09:40:01 AM	1395.800	PSIA
37	Oct 07, 2009 09:45:01 AM	1395.800	PSIA
38	Oct 07, 2009 09:50:00 AM	1398.400	PSIA
39	Oct 07, 2009 09:55:01 AM	1399.400	PSIA
40	Oct 07, 2009 09:59:59 AM	1400.200	PSIA
41	Oct 07, 2009 10:05:01 AM	1403.400	PSIA
42	Oct 07, 2009 10:10:00 AM	1406.200	PSIA
43	Oct 07, 2009 10:15:01 AM	1408.400	PSIA
44	Oct 07, 2009 10:20:00 AM	1421.000	PSIA
45	Oct 07, 2009 10:25:00 AM	1424.800	PSIA
46	Oct 07, 2009 10:30:01 AM	1431.600	PSIA
47	Oct 07, 2009 10:35:00 AM	1432.600	PSIA
48	Oct 07, 2009 10:40:00 AM	1437.000	PSIA
49	Oct 07, 2009 10:44:59 AM	1439.600	PSIA
50	Oct 07, 2009 10:50:01 AM	1442.000	PSIA
51	Oct 07, 2009 10:54:59 AM	1445.400	PSIA
52	Oct 07, 2009 11:00:01 AM	1446.200	PSIA
53	Oct 07, 2009 11:05:00 AM	1449.000	PSIA
54	Oct 07, 2009 11:10:01 AM	1449.800	PSIA
55	Oct 07, 2009 11:15:01 AM	1452.200	PSIA
56	Oct 07, 2009 11:19:59 AM	1463.800	PSIA
57	Oct 07, 2009 11:25:00 AM	1468.600	PSIA
58	Oct 07, 2009 11:30:00 AM	1471.600	PSIA
59	Oct 07, 2009 11:35:01 AM	1474.600	PSIA

60	Oct 07, 2009 11:40:00 AM	1478.000	PSIA
61	Oct 07, 2009 11:45:01 AM	1479.000	PSIA
62	Oct 07, 2009 11:50:01 AM	1480.200	PSIA
63	Oct 07, 2009 11:55:01 AM	1481.800	PSIA
64	Oct 07, 2009 12:00:00 PM	1484.600	PSIA
65	Oct 07, 2009 12:05:00 PM	1485.200	PSIA
66	Oct 07, 2009 12:10:01 PM	1489.200	PSIA
67	Oct 07, 2009 12:14:59 PM	1487.000	PSIA
68	Oct 07, 2009 12:20:01 PM	1500.600	PSIA
69	Oct 07, 2009 12:25:00 PM	1503.000	PSIA
70	Oct 07, 2009 12:30:01 PM	1504.000	PSIA
71	Oct 07, 2009 12:35:00 PM	1507.000	PSIA
72	Oct 07, 2009 12:40:01 PM	1510.000	PSIA
73	Oct 07, 2009 12:45:01 PM	1514.000	PSIA
74	Oct 07, 2009 12:50:00 PM	1515.600	PSIA
75	Oct 07, 2009 12:55:01 PM	1517.000	PSIA
76	Oct 07, 2009 12:59:59 PM	1520.200	PSIA
77	Oct 07, 2009 01:05:01 PM	1520.000	PSIA
78	Oct 07, 2009 01:09:59 PM	1521.800	PSIA
79	Oct 07, 2009 01:15:01 PM	1523.000	PSIA
80	Oct 07, 2009 01:20:01 PM	1530.000	PSIA
81	Oct 07, 2009 01:25:01 PM	1533.400	PSIA
82	Oct 07, 2009 01:30:01 PM	1537.800	PSIA
83	Oct 07, 2009 01:34:59 PM	1536.000	PSIA
84	Oct 07, 2009 01:40:00 PM	1535.800	PSIA
85	Oct 07, 2009 01:45:00 PM	1541.400	PSIA
86	Oct 07, 2009 01:50:01 PM	1545.400	PSIA
87	Oct 07, 2009 01:54:59 PM	1542.600	PSIA
88	Oct 07, 2009 02:00:03 PM	1542.000	PSIA
89	Oct 07, 2009 02:05:01 PM	1543.800	PSIA
90	Oct 07, 2009 02:10:01 PM	1548.400	PSIA
91	Oct 07, 2009 02:15:00 PM	1550.200	PSIA
92	Oct 07, 2009 02:20:00 PM	1555.200	PSIA
93	Oct 07, 2009 02:25:00 PM	1561.600	PSIA
94	Oct 07, 2009 02:29:59 PM	1560.000	PSIA
95	Oct 07, 2009 02:35:00 PM	1563.000	PSIA
96	Oct 07, 2009 02:40:00 PM	1561.600	PSIA
97	Oct 07, 2009 02:45:01 PM	1565.600	PSIA
98	Oct 07, 2009 02:50:01 PM	1568.000	PSIA
99	Oct 07, 2009 02:55:00 PM	1566.000	PSIA
100	Oct 07, 2009 03:00:01 PM	1571.000	PSIA
101	Oct 07, 2009 03:05:00 PM	1569.600	PSIA
102	Oct 07, 2009 03:10:00 PM	1573.400	PSIA
103	Oct 07, 2009 03:14:59 PM	1570.600	PSIA
104	Oct 07, 2009 03:20:00 PM	1581.000	PSIA
105	Oct 07, 2009 03:25:00 PM	1580.400	PSIA
106	Oct 07, 2009 03:30:01 PM	1585.000	PSIA
107	Oct 07, 2009 03:35:01 PM	1583.600	PSIA
108	Oct 07, 2009 03:40:00 PM	1586.400	PSIA
109	Oct 07, 2009 03:45:01 PM	1585.800	PSIA
110	Oct 07, 2009 03:49:59 PM	1589.400	PSIA
111	Oct 07, 2009 03:55:01 PM	1586.800	PSIA
112	Oct 07, 2009 04:00:00 PM	1588.600	PSIA
113	Oct 07, 2009 04:05:00 PM	1594.400	PSIA
114	Oct 07, 2009 04:09:59 PM	1596.400	PSIA
115	Oct 07, 2009 04:15:01 PM	1592.800	PSIA



Report Name: PrTemp1000 Data Table
 Report Date: Oct 08, 2009 08:17:02 AM MDT
 File Name: S:\Welinfo\PTC® Instruments 2.00\Greater Boundary 1-27-8-17 ISIP (10-7-09).csv
 Title: Greater Boundary 1-27-8-17 ISIP (10-7-09)
 Device: PrTemp1000 - Temperature and Pressure Recorder
 Hardware Revision: REV2C (64K)
 Serial Number: M75866
 Device ID: PrTemp
 Data Start Date: Oct 07, 2009 04:15:12 PM MDT
 Data End Date: Oct 07, 2009 04:45:13 PM MDT
 Reading Rate: 2 Seconds
 Readings: 1 to 31 of 31
 Last Calibration Date: May 22, 2009
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Oct 07, 2009 04:15:12 PM	1593.800	PSIA
2	Oct 07, 2009 04:16:13 PM	1573.200	PSIA
3	Oct 07, 2009 04:17:12 PM	1560.200	PSIA
4	Oct 07, 2009 04:18:12 PM	1557.000	PSIA
5	Oct 07, 2009 04:19:13 PM	1554.000	PSIA
6	Oct 07, 2009 04:20:12 PM	1551.800	PSIA
7	Oct 07, 2009 04:21:12 PM	1549.600	PSIA
8	Oct 07, 2009 04:22:13 PM	1548.400	PSIA
9	Oct 07, 2009 04:23:13 PM	1546.600	PSIA
10	Oct 07, 2009 04:24:12 PM	1545.000	PSIA
11	Oct 07, 2009 04:25:13 PM	1544.000	PSIA
12	Oct 07, 2009 04:26:13 PM	1542.600	PSIA
13	Oct 07, 2009 04:27:12 PM	1540.800	PSIA
14	Oct 07, 2009 04:28:12 PM	1540.200	PSIA
15	Oct 07, 2009 04:29:13 PM	1538.800	PSIA
16	Oct 07, 2009 04:30:12 PM	1537.400	PSIA
17	Oct 07, 2009 04:31:12 PM	1536.600	PSIA
18	Oct 07, 2009 04:32:13 PM	1535.400	PSIA
19	Oct 07, 2009 04:33:13 PM	1534.600	PSIA
20	Oct 07, 2009 04:34:12 PM	1533.400	PSIA
21	Oct 07, 2009 04:35:13 PM	1532.000	PSIA
22	Oct 07, 2009 04:36:12 PM	1531.200	PSIA
23	Oct 07, 2009 04:37:12 PM	1530.600	PSIA
24	Oct 07, 2009 04:38:13 PM	1529.600	PSIA
25	Oct 07, 2009 04:39:13 PM	1528.800	PSIA
26	Oct 07, 2009 04:40:12 PM	1528.200	PSIA
27	Oct 07, 2009 04:41:13 PM	1527.400	PSIA
28	Oct 07, 2009 04:42:13 PM	1526.400	PSIA
29	Oct 07, 2009 04:43:12 PM	1525.600	PSIA
30	Oct 07, 2009 04:44:12 PM	1524.800	PSIA
31	Oct 07, 2009 04:45:13 PM	1524.000	PSIA

Greater Boundary 1-27-8-17 Rate Sheet (10-7-09)

Step # 1	Time:	7:20	7:25	7:30	7:35	7:40	7:45
	Rate:	100.5	100.5	100.5	100.5	100.4	100.4
	Time:	7:50	7:55	8:00	8:05	8:10	8:15
	Rate:	100.3	100.3	100.3	100.2	100.2	100.2
Step # 2	Time:	8:20	8:25	8:30	8:35	8:40	8:45
	Rate:	200.3	200.3	200.3	200.3	200.3	200.2
	Time:	8:50	8:55	9:00	9:05	9:10	9:15
	Rate:	200.2	200.2	200.1	200.1	200.1	200.1
Step # 3	Time:	9:20	9:25	9:30	9:35	9:40	9:45
	Rate:	300.5	300.5	300.4	300.3	300.3	300.3
	Time:	9:50	9:55	10:00	10:05	10:10	10:15
	Rate:	300.2	300.2	300.2	300.2	300.1	300.1
Step # 4	Time:	10:20	10:25	10:30	10:35	10:40	10:45
	Rate:	400.4	400.4	400.4	400.4	400.3	400.3
	Time:	10:50	10:55	11:00	11:05	11:10	11:15
	Rate:	400.3	400.3	400.2	400.2	400.2	400.2
Step # 5	Time:	11:20	11:25	11:30	11:35	11:40	11:45
	Rate:	500.6	500.6	500.6	500.6	500.6	500.6
	Time:	11:50	11:55	12:00	12:05	12:10	12:15
	Rate:	500.5	500.4	500.4	500.3	500.3	500.3
Step # 6	Time:	12:20	12:25	12:30	12:35	12:40	12:45
	Rate:	600.4	600.4	600.4	600.3	600.3	600.3
	Time:	12:50	12:55	1:00	1:05	1:10	1:15
	Rate:	600.3	600.3	600.3	600.3	600.2	600.2
Step # 7	Time:	1:20	1:25	1:30	1:35	1:40	1:45
	Rate:	700.8	700.8	700.7	700.6	700.6	700.5
	Time:	1:50	1:55	2:00	2:05	2:10	2:15
	Rate:	700.4	700.4	700.3	700.3	700.3	700.2
Step # 8	Time:	2:20	2:25	2:30	2:35	2:40	2:45
	Rate:	800.6	800.6	800.5	800.5	800.5	800.4
	Time:	2:50	2:55	3:00	3:05	3:10	3:15
	Rate:	800.4	800.4	800.3	800.3	800.3	800.3

Step # 9

Time:	3:20	3:25	3:30	3:35	3:40	3:45
Rate:	900.4	900.4	900.4	900.3	900.3	900.2
Time:	3:50	3:55	4:00	4:05	4:10	4:15
Rate:	900.2	900.2	900.1	900.1	900.1	900

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76241
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		8. WELL NAME and NUMBER: GBU 1-27-8-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0733 FNL 0726 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 27 Township: 08.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013322280000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/18/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input checked="" type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="MIT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above subject well had workover procedures performed (tubing leak), attached is a daily status report. Workover MIT performed on the above listed well. On 06/18/2014 the csg was pressured up to 1129 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbp pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06172		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 17, 2014		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 6/25/2014	

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____

Date: 6 / 18 / 2014Test conducted by: Dustin BennettOthers present: Hal Richins

Well Name: <u>Greater Boulder 1-27-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Manvant Butte</u>		
Location: <u>NE 1/4</u> Sec: <u>77</u> T: <u>8</u> N: <u>13</u> R: <u>17</u> E/W	County: <u>Duckhorn</u>	State: <u>UT</u>
Operator: <u>Newfield Exploration</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: <u>1320</u>	PSIG

Is this a regularly scheduled test?

☒ Yes ☐ No

Initial test for permit?

☐ Yes ☒ No

Test after well rework?

☒ Yes ☐ No

Well injecting during test?

☐ Yes ☒ No

If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 1131 / 10 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
CASING / TUBING	ANNULUS PRESSURE		
0 minutes	<u>1131</u> psig	psig	psig
5 minutes	<u>1131</u> psig	psig	psig
10 minutes	<u>1131</u> psig	psig	psig
15 minutes	<u>1130</u> psig	psig	psig
20 minutes	<u>1130</u> psig	psig	psig
25 minutes	<u>1130</u> psig	psig	psig
30 minutes	<u>1129</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

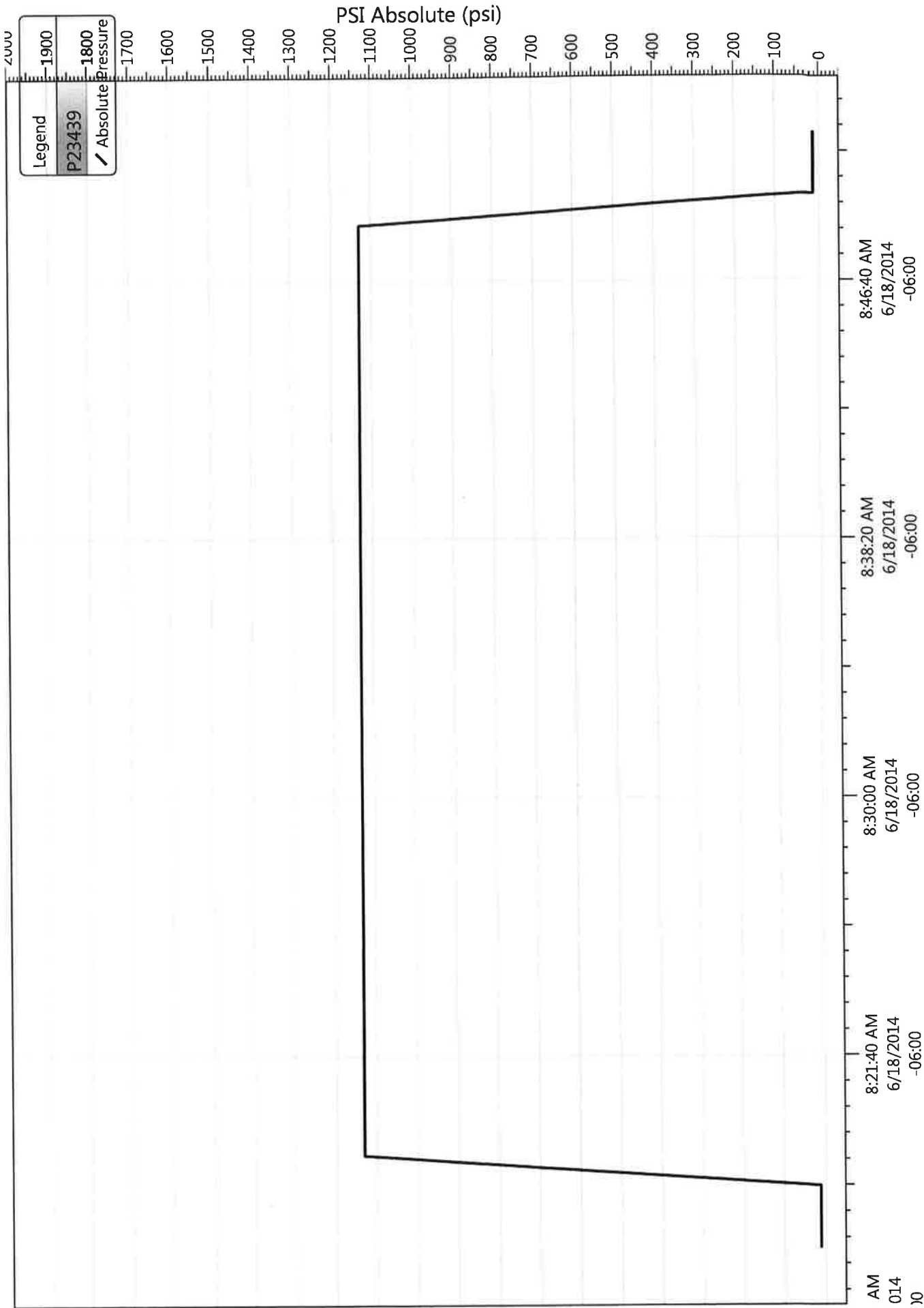
MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____

Greater Boundry 1-27-8-17 (rework MIT 6-18-2014)

6/18/2014 8:14:52 AM





Well Name: Greater Boundary II 1-27-8-17

Job Detail Summary Report

Sundry Number: 52597 API Well Number: 43013322280000

Jobs				Job Start Date	Job End Date
Primary Job Type Repairs				6/13/2014	6/18/2014

Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
6/13/2014	6/13/2014	MIRU	
Start Time	05:00	End Time	06:00
Start Time	06:00	End Time	09:00
Start Time	09:00	End Time	10:00
Start Time	10:00	End Time	11:00
Start Time	11:00	End Time	13:00
Start Time	13:00	End Time	14:00
24hr Activity Summary			
Report Start Date	Report End Date	24hr Activity Summary	
6/16/2014	6/16/2014	PU & TIH W/ 5 1/2" Bit & Scraper PSN & 141 JTS 2 7/8" TBG	
Start Time	00:00	End Time	01:00
Start Time	01:00	End Time	03:30
Start Time	03:30	End Time	04:30
Start Time	04:30	End Time	05:30
Start Time	05:30	End Time	09:30
Start Time	09:30	End Time	10:30
Start Time	10:30	End Time	11:30
Start Time	11:30	End Time	12:30
24hr Activity Summary			
Report Start Date	Report End Date	24hr Activity Summary	
6/17/2014	6/17/2014	Try doing MIT, Lost 50 PSI In 30 MIN, Let well equalize overnight, CWI	
Start Time	06:00	End Time	07:00
Start Time	07:00	End Time	08:30
Start Time	08:30	End Time	09:30
Start Time	09:30	End Time	10:00
Start Time	10:00	End Time	11:45
Start Time	11:45	End Time	12:30



Job Detail Summary Report

Well Name: Greater Boundary II 1-27-8-17

Start Time	12:30	End Time	13:15	Comment Set 5 1/2" Arrowset-1 PKR W/ 15000# Tension @ 4429' PSN @ 4423' & EOT @ 4440', Land TBG W/ B-1 Adaptor flange, NU Wellhead
Start Time	13:15	End Time	14:15	Comment PRESS CSG Up to 1500 PSI Watch well for 1 HR
Start Time	14:15	End Time	15:00	Comment Try doing MIT, Lost 50 PSI In 30 MIN, Let well equalize overnight, CWI
Start Time	15:00	End Time	16:00	Comment Crew Travel
Report Start Date	Report End Date	24hr Activity Summary		
6/18/2014	6/18/2014	Conduct MIT		
Start Time	08:15	End Time	08:45	Comment Workover MIT performed on the above listed well. On 06/18/2014 the csg was pressured up to 1129 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06172

NEWFIELD

Schematic

Well Name: Greater Boundary II 1-27-8-17

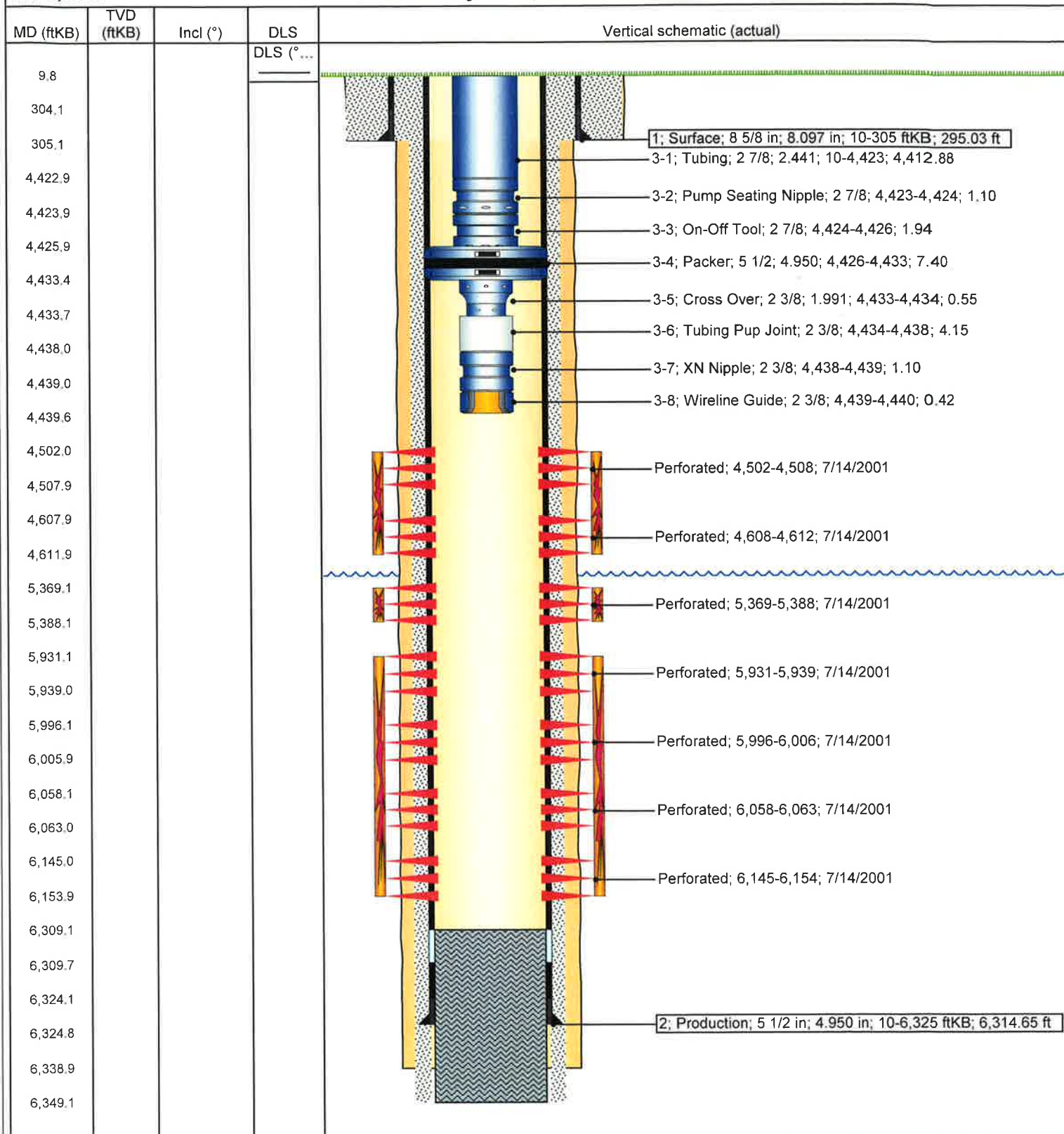
Surface Legal Location		API/UWI	Well RC	Lease	State/Province	Field Name	County
733' FNL & 726' FEL (NENE) SECTION 27-T8S-R17E		43013322280000	500150945		Utah	GMBU CTB7	DUCHESNE
Spud Date	Rig Release Date	On Production Date	Original KB Elevation (ft)	Ground Elevation (ft)	Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB)
5/10/2001	6/16/2001	7/21/2001	5,093	5,083			Original Hole - 6,309.0

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Job Start Date	Job End Date
Production / Workover	Repairs	Tubing Repair	6/13/2014	6/18/2014

TD: 6,339.0

Vertical - Original Hole, 6/23/2014 2:13:03 PM



NEWFIELD
Newfield Wellbore Diagram Data
Greater Boundary II 1-27-8-17

Surface Legal Location 733' FNL & 726' FEL (NENE) SECTION 27-T8S-R17E			API/UWI 43013322280000	Lease
County DUCHESNE	State/Province Utah	Basin Uintah Basin	Field Name GMBU CTB7	
Well Start Date 5/10/2001	Spud Date 5/10/2001	Final Rig Release Date 6/16/2001	On Production Date 7/21/2001	
Original KB Elevation (ft) 5,093	Ground Elevation (ft) 5,083	Total Depth (ftKB) 6,339.0	Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 6,309.0

Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	5/10/2001	8 5/8	8.097	24.00	J-55	305
Production	6/15/2001	5 1/2	4.950	15.50	J-55	6,325

Cement**String: Surface, 305ftKB 5/10/2001**

Cementing Company BJ Services Company	Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 305.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 2% CaCL2 + 1/4#/sk Cello-Flake	Fluid Type Lead	Amount (sacks) 145	Class G	Estimated Top (ftKB) 10.0

String: Production, 6,325ftKB 6/15/2001

Cementing Company BJ Services Company	Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 6,349.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description .5% SMS, 10% gel, 3#/sk BA90, 3#/sk kolseal, 3% KCL, 1/4#/sk C.F., .05#/sk staticfree	Fluid Type Lead	Amount (sacks) 365	Class Premlite II	Estimated Top (ftKB)
Fluid Description 3% KCL, 1/4#/sk C.F., 2% gel, .3% SMS, .1R3 .05#/sk staticfree	Fluid Type Tail	Amount (sacks) 525	Class 50:50 POZ	Estimated Top (ftKB)

Tubing Strings

Tubing Description					Run Date		Set Depth (ftKB)	
Tubing					6/17/2014		4,439.5	
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	141	2 7/8	2.441	6.50	J-55	4,412.88	10.0	4,422.9
Pump Seating Nipple		2 7/8				1.10	4,422.9	4,424.0
On-Off Tool		2 7/8				1.94	4,424.0	4,425.9
Packer		5 1/2	4.950			7.40	4,425.9	4,433.3
Cross Over		2 3/8	1.991			0.55	4,433.3	4,433.9
Tubing Pup Joint		2 3/8				4.15	4,433.9	4,438.0
XN Nipple		2 3/8				1.10	4,438.0	4,439.1
Wireline Guide		2 3/8				0.42	4,439.1	4,439.5

Rod Strings

Rod Description		Run Date			Set Depth (ftKB)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

Perforation Intervals

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Nom Hole Dia (in)	Date
3	GB4 SANDS, Original Hole	4,502	4,508	4			7/14/2001
3	GB6 SANDS, Original Hole	4,608	4,612	4			7/14/2001
2	B .5 SANDS, Original Hole	5,369	5,388	4			7/14/2001
1	CP1 SANDS, Original Hole	5,931	5,939	4			7/14/2001
1	CP2 SANDS, Original Hole	5,996	6,006	4			7/14/2001
1	CP3 SANDS, Original Hole	6,058	6,063	4			7/14/2001
1	CP4 SANDS, Original Hole	6,145	6,154	4			7/14/2001

Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	1,700		36.0	2,050			
2	1,910	0.79	30.0	2,250			
3	2,100	0.89	30.1	2,310			

Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant Sand 135800 lb
2		Proppant Sand 106720 lb
3		Proppant Sand 48660 lb



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

JUL 30 2014

RECEIVED

AUG 04 2014

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7008-3230-0003-0727-5652
RETURN RECEIPT REQUESTED

Mr. J D Horrocks
Newfield Exploration Company
Route 3, Box 3630
Myton, UT 84052

27 85 17E

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Greater Boundary 1-27-8-17 Well
EPA ID# UT22197-06172
API # 43-013-32228
Duchesne County, CO

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

Dear Mr. Horrocks:

On July 3, 2014, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above-referenced well concerning the workover and the follow-up mechanical integrity test (MIT) conducted on June 18, 2014. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before June 18, 2019.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years (temporary abandonment), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water (non-endangerment demonstration) during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056.
Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Mark Chalfant, Acting Director
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Gordon Howell, Chairman
 Uintah & Ouray Business Committee
 P.O. Box 190
 Fort Duchesne, Utah 84026

 Reannin Tapoof, Executive Assistant
 Uintah & Ouray Business Committee
 P.O. Box 190
 Fort Duchesne, Utah 84026

 Tony Small, Councilman
 Uintah & Ouray Business Committee
 P.O. Box 190
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 Phillip Chimburas, Councilman
 Uintah & Ouray Business Committee
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 Ronald Wopsock, Vice-Chairman
 Uintah & Ouray Business Committee
 P.O. Box 190
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 Stewart Pike, Councilman
 Uintah & Ouray Business Committee
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 Bruce Ignacio, Councilman
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 Fort Duchesne, Utah 84026

 Manuel Myore, Director of Energy,
 Minerals and Air Programs
 Ute Indian Tribe
 P.O. Box 190
 Fort Duchesne, Utah 84026

✓ John Rogers
 Utah Division of Oil, Gas and Mining
 P.O. Box 145801
 Salt Lake City, Utah 84114

